रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS

सी ई एन आर पी एफ - ०१/२०२४ - CEN RPF - 01/2024

RRB RPF SUB-INSPECTOR 2024

RPF Sub-Inspector (Executive) | CEN RPF 01/2024

ENGLISH ANSWER KEY

Official Answer Key

All 15 Shifts · 02-12-2024 to 13-12-2024

Questions	120
Marking	+1 correct / -1/3 wrong
Duration	90 minutes
Sections	Arithmetic 35 · Reasoning 35 · General Awareness 50

Every paper is re-set from the saved RRB question paper, with the official correct answer marked.

HOW TO USE THIS BOOK

1. Open the INDEX on the next page.
2. Click any row to jump straight to that date and shift.
3. Correct options are ticked in green, wrong ones crossed in red.
4. Use the bookmarks panel of your PDF reader to move between shifts.

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Compiled 27 October 2026

INDEX · Click any row to open that paper

RRB RPF Sub-Inspector 2024 (English) · 15 shifts

DAY	DATE	SHIFT	TIME	PAGE
Day 1	02-12-2024	Shift 1	09:00 - 10:30	3
Day 1	02-12-2024	Shift 2	12:30 - 14:00	24
Day 1	02-12-2024	Shift 3	16:00 - 17:30	44
Day 2	03-12-2024	Shift 1	09:00 - 10:30	65
Day 2	03-12-2024	Shift 2	12:30 - 14:00	85
Day 2	03-12-2024	Shift 3	16:00 - 17:30	105
Day 3	09-12-2024	Shift 1	09:00 - 10:30	125
Day 3	09-12-2024	Shift 2	12:30 - 14:00	145
Day 3	09-12-2024	Shift 3	16:00 - 17:30	165
Day 4	12-12-2024	Shift 1	09:00 - 10:30	186
Day 4	12-12-2024	Shift 2	12:30 - 14:00	206
Day 4	12-12-2024	Shift 3	16:00 - 17:30	226
Day 5	13-12-2024	Shift 1	09:00 - 10:30	246
Day 5	13-12-2024	Shift 2	12:30 - 14:00	266
Day 5	13-12-2024	Shift 3	16:00 - 17:30	287

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सी ई एन आर पी एफ - ०१/२०२४ - CEN RPF - 01/2024

Test Date	02/12/2024
Test Time	9:00 AM - 10:30 AM
Subject	RRB RPF SI 2024

*** Note**
Correct Answer will carry 1 mark per Question.
Incorrect Answer will carry 1/3 Negative mark per Question.

1. Options shown in green color with a tick icon are correct.

Section : **Arithmetic**

Q.1 $0.\overline{54} + 0.2\overline{3}$

Ans

✗ A. $\frac{771}{99}$

✗ B. $\frac{771}{999}$

✗ C. $\frac{771}{900}$

✓ D. $\frac{771}{990}$

Q.2 **The price (per litre) of petrol increases by 75%. By what percent should its consumption be reduced such that the expenditure on it increases by 33% only?**

Ans

✗ A. 70%

✓ B. 76%

✗ C. 82%

✗ D. 75%

Q.3 $\frac{1}{7} + \frac{2}{7} + \frac{5}{14} + \frac{4}{7} - 3 =$

Ans

✓ A. $-\frac{23}{14}$

✗ B. $-\frac{13}{14}$

✗ C. $-\frac{32}{14}$

✗ D. $-\frac{27}{14}$

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Q.4 Sharad completes his journey in 8 hours. He covers half the distance at 90 km/h and the rest at 30 km/h. What is the length of the journey (in Km)?

Ans

✗ A. 359

✗ B. 356

✓ C. 360

✗ D. 354

Q.5 During sale, Raghav bought a notebook marked for ₹70 at 40% discount and a pen marked for ₹20 at 35% discount. How much (in ₹) did he save due to sale?

Ans

✓ A. 35

✗ B. 32

✗ C. 38

✗ D. 34

Q.6 The selling price of 16 books is equal to the cost price of 12 books. Find the loss or gain percentage.

Ans

✗ A. $\frac{100}{3}\%$

✗ B. 25 % gain

✗ C. $\frac{100}{3}\%$

✓ D. 25 % loss

Q.7 Which of the following ratio is smallest?

Ans

✓ A. 11 : 60

✗ B. 29 : 42

✗ C. 17 : 33

✗ D. 19 : 36

Q.8 The smallest 1-digit number to be added to the 6-digit number 910300 so that it is completely divisible by 11 is:

Ans

✗ A. 6

✗ B. 2

✓ C. 5

✗ D. 9

Q.9 The HCF and the LCM of two numbers are 57 and 114, respectively.

Ans

✗ A. 124

✗ B. 154

✓ C. 171

✗ D. 186

Q.10 Ketan sold 171 chairs and had a gain equal to the selling price of 95 chairs. What is his profit percentage?

Ans

✗ A. 120%

✗ B. 130%

✗ C. 135%

✓ D. 125%

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Q.11 $\frac{2}{3}, \frac{9}{87}, \frac{20}{21}, \frac{45}{66}$

Ans
- ✗ A. $\frac{2}{3}$
- ✓ B. $\frac{20}{21}$
- ✗ C. $\frac{45}{66}$
- ✗ D. $\frac{9}{87}$

Q.12 Find the value of $\left[(32 \div 8) \times \left\{\frac{15}{5} + \frac{30}{5} \times (7 - 2)\right\}\right]$

Ans
- ✗ A. 149
- ✗ B. 143
- ✓ C. 132
- ✗ D. 116

Q.13 **What will be difference in population 3 years ago and 2 years ago of a town, whose current population is 180000 and which is increasing at a rate of 25% every year?**

Ans
- ✗ A. 22490
- ✗ B. 22290
- ✓ C. 23040
- ✗ D. 23390

Q.14 **A solid hemisphere of iron is melted and recast into the shape of a right circular cylinder with a diameter of 9 cm and a height of 42 cm. Find the volume of the cylinder. (Use π = 22/7)**

Ans
- ✓ A. 1. 2673 cm^3
- ✗ B. 2. 891 cm^3
- ✗ C. 3. 668 cm^3
- ✗ D. 4. 3564 cm^3

Q.15 **If a 1136 m long train crosses a pole in 71 seconds, then find the time (in seconds) taken by the train to cross a 656 m long platform.**

Ans
- ✗ A. 120
- ✓ B. 112
- ✗ C. 118
- ✗ D. 110

Q.16 **Manav's average earning per month in the first three months of a year was ₹76096. In April, his earning was 75% more than the average earning in the first three months. If his average earning per month for the whole year is ₹94660, then what will be Manav's average earning (in ₹) per month from May to December?**

Ans
- ✗ A. 96804
- ✗ B. 96813
- ✗ C. 96803
- ✓ D. 96808

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Q.17 Lalit's average earning per month in the first three months of a year was ₹22272. In April, his earning was 75% more than the average earning in the first three months. If his average earning per month for the whole year is ₹84460, then what will be Lalit's average earning (in ₹) per month from May to December?

Ans
- ✗ A. 113470
- ✓ B. 113466
- ✗ C. 113471
- ✗ D. 113463

Q.18 The difference between the simple interest and the compound interest, compounded annually, on a certain sum of money for 2 years at 6% per annum is ₹78. Find the sum. [Give your answer to integral number without rounded off.]

Ans
- ✗ A. ₹21652
- ✗ B. ₹21682
- ✓ C. ₹21666
- ✗ D. ₹21672

Q.19 A sum, when invested at 20% simple interest per annum, amounts to ₹2400 after 3 years. What is the simple interest (in ₹) on the same sum at the same rate in 2 year?

Ans
- ✗ A. 300
- ✗ B. 1200
- ✗ C. 2400
- ✓ D. 600

Q.20 If the sum of the n observations is 160 and their average is 40, find the value of 7n + 15.

Ans
- ✗ A. 41
- ✓ B. 43
- ✗ C. 47
- ✗ D. 45

Q.21 Evaluate 147^2

Ans
- ✓ A. 21609
- ✗ B. 21639
- ✗ C. 21629
- ✗ D. 21669

Q.22 Two trains of equal length are running on parallel lines in the same direction at speeds of 51 km/h and 42 km/h. The faster train passes the slower train in 16 seconds. The length of each train is:

Ans
- ✗ A. 19 meters
- ✗ B. 33 meters
- ✓ C. 20 meters
- ✗ D. 30 meters

Q.23 A number when increased by 50 %', gives 3720. The number is:

Ans
- ✗ A. 7440
- ✗ B. 4960
- ✗ C. 1240
- ✓ D. 2480

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Q.24 The average price of three items of furniture is Rs 15915. If their prices are in the ratio 3:5:7, the price of the costliest item (in Rs) is

Ans

✗ A. 7427

✗ B. 15915

✗ C. 9549

✓ D. 22281

Q.25 If third proportional of 76 and 38 be x, then what is the value of x?

Ans

✓ A. 19

✗ B. 17

✗ C. 22

✗ D. 16

Q.26 Find the value of $\left[(35 \div 5) \times \left\{\frac{12}{6} + \frac{25}{2} \times (9 - 7)\right\}\right]$

Ans

✗ A. 170

✓ B. 189

✗ C. 172

✗ D. 174

Q.27 Find the volume (in cm^3) of a cylinder that circumscribes a sphere witl

Ans

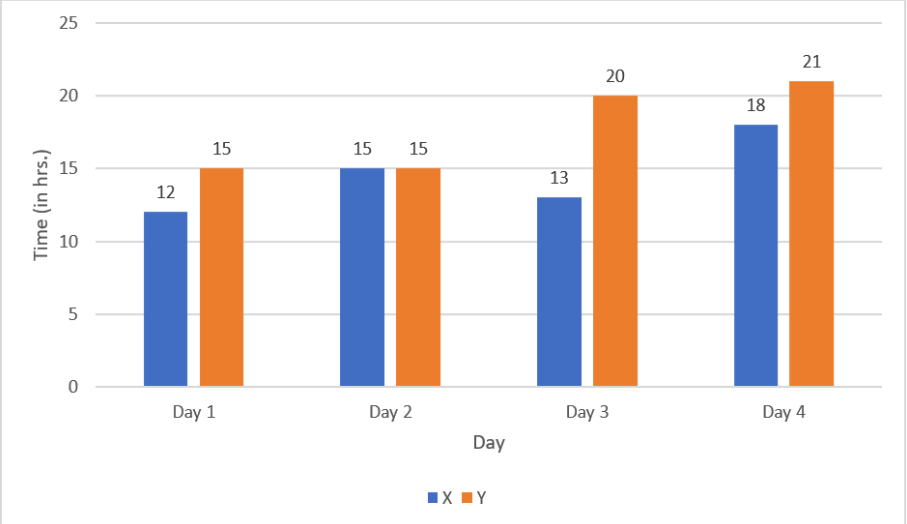
✗ A. 142.984

✓ B. 137.984

✗ C. 145.984

✗ D. 140.984

Q.28 Time taken (in hrs) by two trains X and Y to travel the distance from Lucknow to Chandigarh via the same route on four different days is given in the following bar graph. Study the graph carefully and answer the question given below:



If the distance between Lucknow and Chandigarh is 754 km, then what is the difference between the average speed (in km/hr) of the trains X and Y on Day 3?

Ans

✓ A. 20.3

✗ B. 15.8

✗ C. 23.5

✗ D. 18.5

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Q.29 Given that $40^{0.11} = x$, $40^{0.1} = y$ and $x^z = y^2$, then the value of z is close to:

Ans

✗ A. 2.72

✗ B. 1.16

✗ C. 0.09

✓ D. 1.82

Q.30 The list price of a washing machine is ₹41000. It is sold to a retailer after two successive discounts of 12% and 30%. The retailer wants to earn a profit of 25% on it's cost price after allowing a 50% discount (on its new list price) to the customer. At what price should he list the washing machine?

Ans

✗ A. ₹62956

✗ B. ₹63076

✓ C. ₹63140

✗ D. ₹62967

Q.31 If x varies inversely as $y^3 - 1$ and is equal to 6 when y = 3, find x when y = 8.

Ans

✓ A. $\frac{156}{511}$

✗ B. $\frac{158}{511}$

✗ C. $\frac{157}{512}$

✗ D. $\frac{156}{512}$

Q.32 The diameter of the base of a solid cone is 24 cm and its height is 21 cm. It is cut into three parts by two cuts which are parallel to its base. The cuts are at the height of 7 cm and 14 cm from the base, respectively. Find the curved surface area (in cm^2) of the top part. (use π = 3.14)

Ans

✗ A. $15.46\sqrt{10}$

✗ B. $14.65\sqrt{15}$

✓ C. $12.56\sqrt{65}$

✗ D. $12.56\sqrt{30}$

Q.33 Rahul covers 734 km in a boat in 30 hours against the stream and he takes 12 hours with the stream then find the speed of the stream?

Ans

✗ A. 28.44 km/h

✗ B. 11.88 km/h

✓ C. 18.35 km/h

✗ D. 19.07 km/h

Q.34 The average of 7 numbers is 53. If each number is increased by 6, what will the new average be?

Ans

✗ A. 65

✗ B. 53

✓ C. 59

✗ D. 7

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Q.35 **LCM and HCF of two numbers are 114 and 19 respectively. If one of the numbers is 57, then find the other number.**

Ans

✗ A. 35

✗ B. 40

✗ C. 36

✓ D. 38

Section : **General Intelligence and Reasoning**

Q.36 **Which of the following letter-clusters will replace the question mark (?) in the given series to make it logically complete?**

JZI 3 LVL 9 ? PNR 81 RJU 243

Ans

✗ A. MPO 15

✗ B. BYR 21

✗ C. NGR 17

✓ D. NRO 27

Q.37 **Three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which is the letter-cluster pair that does NOT belong to that group?**
(Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)

Ans

✗ A. TK - OR

✗ B. QH - LO

✗ C. WN - RU

✓ D. NE - IK

Q.38 **F, G, H, I, J and Q live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it, number 2 and so on, till the topmost floor is numbered 6. No one lives below J. Only two people lives between J and G. Only I lives above Q. H lives on an even numbered floor. How many people live between F and Q?**

Ans

✗ A. Four

✗ B. Two

✓ C. One

✗ D. Three

Q.39 **FUND is related to KSSB in a certain way based on the English alphabetical order. In the same way, PQXZ is related to UOCX. To which of the given options is ZMHV related to, following the same logic?**

Ans

✗ A. FLNT

✓ B. EKMT

✗ C. GJMU

✗ D. DKLS

Q.40 **Refer to the following letter, number and symbol series and answer the question that follows. Counting to be done from left to right only.**

(Left) G E * S D Y # 3 R 6 K & 5 4 @ C & T % 7 2 (Right)

How many such letters are there which are immediately preceded by a number and also immediately followed by a symbol?

Ans

✗ A. 3

✗ B. 2

✓ C. 1

✗ D. 0

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Q.41 **Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which is the letter-cluster pair that DOES NOT belong to that group?**

(Note: The odd man out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans

✗ A. AD-FI

✗ B. DG-IL

✗ C. BE-GJ

✓ D. CE-HK

Q.42 **If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 7123546, what will be sum of the highest and lowest digits in the new number thus formed?**

Ans

✗ A. 6

✗ B. 9

✗ C. 7

✓ D. 8

Q.43 **This question is based on the five, three-digit numbers given below.**
(Left) 589 365 451 749 159 (Right)

(Example: 697 – First digit = 6, second digit = 9 and third digit = 7)
(NOTE: All operations to be done from left to right.)

If all the numbers are arranged in ascending order, the position of how many numbers will remain unchanged?

Ans

✗ A. One

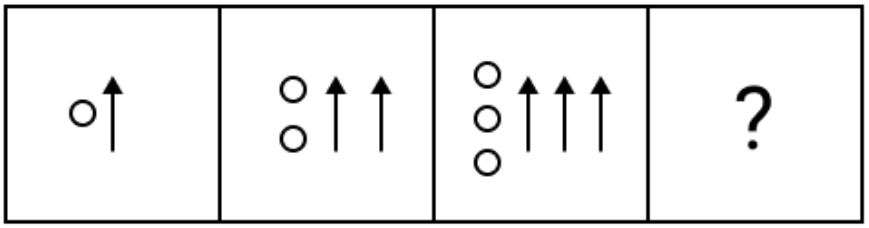
✓ B. Two

✗ C. Three

✗ D. Four

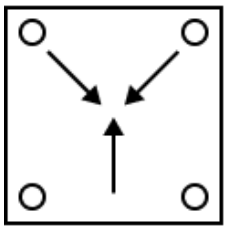
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Q.44

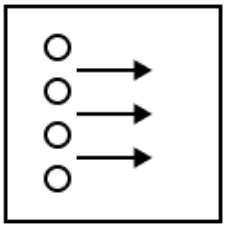


Ans

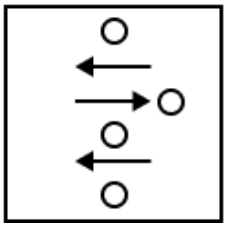
✗ A.



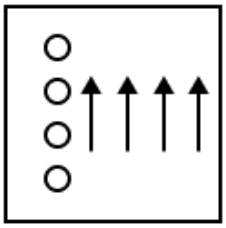
✗ B.



✗ C.



✓ D.



Q.45 **Select the set in which the numbers are related in the same way as are the numbers of the following sets.**

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(30, 49, 19)
(37, 39, 2)

Ans

✗ A. (17, 32, 12)

✓ B. (7, 29, 22)

✗ C. (37, 58, 18)

✗ D. (18, 42, 21)

Q.46 **In a certain code language, 'DOES' is coded as '2649' and 'PAID' is coded as '1365'. What is the code for 'D' in the given code language?**

Ans

✗ A. 5

✗ B. 3

✓ C. 6

✗ D. 2

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Q.47 **Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?**
(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans
- ✗ A. SUY
- ✓ B. NQT
- ✗ C. VXB
- ✗ D. ZBF

Q.48 **S is the brother of D. D is the father of F. F is the mother of G. G is the wife of H. How is S related to H?**

Ans
- ✓ A. Wife's mother's father's brother
- ✗ B. Wife's mother's mother's father
- ✗ C. Wife's mother's father's father
- ✗ D. Wife's mother's mother's brother

Q.49 **Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number results in the second number. Similarly, certain mathematical operation(s) on the second number results in the third number and so on. Which of the given options follows the same set of operations as in the given sets?**
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting /multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

79 - 71 - 65 - 61
84 - 76 - 70 - 66

Ans
- ✗ A. 99 - 92 - 86 - 81
- ✗ B. 70 - 62 - 54 - 50
- ✓ C. 93 - 85 - 79 - 75
- ✗ D. 64 - 56 - 40 - 36

Q.50 **Gagan starts from point A and drives 13 km towards East. He then takes a right turn, drives 15 km, turns right and drives 17 km. He then takes a right turn and drives 16 km. He takes a final right turn, drives 4 km and stops at point P. How far (shortest distance) and towards which direction should he drive in order to reach point A again? (All turns are 90 degrees turns only unless specified.)**

Ans
- ✗ A. 2 km to the South
- ✗ B. 3 km to the South
- ✗ C. 4 km to the South
- ✓ D. 1 km to the South

Q.51 **Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.**

Statements:
All oranges are apples.
All apples are kiwis.
Some apples are grapes.

Conclusions:
(I): Some kiwis are grapes.
(II): Some oranges are grapes.

Ans
- ✗ A. Neither conclusion I nor II follows
- ✓ B. Only conclusion I follows
- ✗ C. Only conclusion II follows
- ✗ D. Both conclusions I and II follow

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Q.52 Seven people, R, S, T, U, V, W and Y, are sitting around a circular table facing the centre of the table. W sits to the immediate left of R. U sits to the immediate left of T. S sits second to the right of T. R sits third to the right of V. Who sits second to the right of Y?

Ans

✗ A. T

✗ B. S

✓ C. W

✗ D. U

Q.53 A $ B means 'A is the sister of B',
A @ B means 'A is the daughter of B',
A * B means 'A is the father of B' and
A - B means 'A is the son of B'.
Based on the above information, which of the following means that D is the daughter's husband of M?

Ans

✗ A. D $ R - E * A @ M

✗ B. D @ R - E $ A * M

✗ C. D $ R * E - A @ M

✓ D. D * R @ E $ A - M

Q.54 If 2 is added to each odd digit and 1 is subtracted from each even digit in the number 2586473, which of the following digits will be third from the left in the new number thus formed?

Ans

✗ A. 9

✗ B. 1

✓ C. 7

✗ D. 5

Q.55 Refer to the following letter, number and symbol series and answer the question that follows. Counting to be done from left to right only.
(Left) D R & F 1 7 Q * 9 E D 4 W W % I 6 L 3 * € $ (Right)
If all the numbers are dropped from the series, which of the following will be fourth from the left?

Ans

✓ A. F

✗ B. Q

✗ C. *

✗ D. E

Q.56 Rayan starts from Point A and drives 13 km towards East. He then takes a left turn, drives 5 km, turns left and drives 15 km. He then takes a left turn and drives 11 km. He takes a final left turn, drives 2 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degree turns only unless specified.)

Ans

✓ A. 6 km to the North

✗ B. 5 km to the North

✗ C. 5 km to the South

✗ D. 6 km to the South

Q.57 In a certain code language, 'PAGE' is coded as '6123' and 'GAPS' is coded as '3761'. What is the code for 'S' in that language?

Ans

✗ A. 1

✗ B. 6

✓ C. 7

✗ D. 3

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Q.58 **Each vowel in the word ICTERID is changed to the letter immediately following it in the English alphabetical order and each consonant is changed to the letter immediately preceding it in the English alphabetical order. How many letters will appear exactly twice in the group of letters thus formed?**

Ans

✔ A. 1

✘ B. 0

✘ C. 2

✘ D. 3

Q.59 **G, H, I, J, K, L and O are sitting around a circular table facing the centre of the table. L sits third to the left of G. H sits second to the left of O. Only G sits between J and H. K is not an immediate neighbour of L. How many people sit between I and K, when counted from the right of I?**

Ans

✘ A. One

✘ B. Four

✔ C. Three

✘ D. Two

Q.60 **What will come in the place of the question mark (?) in the following equation, if '×' and '+' are interchanged and '−' and '÷' are interchanged?**

44 ÷ 9 × 32 − 8 + 4 = ?

Ans

✘ A. 53

✘ B. 54

✔ C. 51

✘ D. 52

Q.61 **Six people, named W, X, Y, Z, T and U, each are of different ages. The age of Y is 30. The age of T is five times the age of Z. The age of W is half the age of X. The age of Z is one-fourth the age of W. The age of Y is two times the age of T. If the age of X is half the age of U, what is the age of U?**

Ans

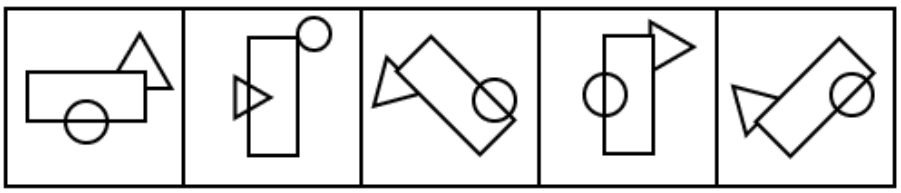
✘ A. 45

✘ B. 38

✔ C. 48

✘ D. 35

Q.62 **Four of the following five figures are alike in a certain way and thus form a group. Which figure DOES NOT belong to that group?**



Ans

✘ A. A

✘ B. D

✔ C. B

✘ D. C

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Q.63 Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.

HIF KLI NOL QRO ?

Ans

✗ A. TVS

✓ B. TUR

✗ C. SVR

✗ D. TUS

Q.64 Select the numbers from among the given options that can replace the question marks (?) in the following series.

213 216 221 228 237 ? 261 ?

Ans

✓ A. 248, 276

✗ B. 246, 277

✗ C. 259, 286

✗ D. 247, 275

Q.65 Ijk ranked 89th from the bottom and 19th from the top in his class. How many students are there in his class?

Ans

✓ A. 107

✗ B. 99

✗ C. 121

✗ D. 111

Q.66 In a certain code language, 'OWES' is coded as '5172' and 'NEWS' is coded as '4521'. What is the code for 'N' in that language?

Ans

✗ A. 5

✓ B. 4

✗ C. 1

✗ D. 2

Q.67 LPHK is related to NRJM in a certain way based on the English alphabetical order. In the same way, OSKN is related to QUMP. To which of the following is RVNQ related, following the same logic?

Ans

✓ A. TXPS

✗ B. XTSP

✗ C. XTPS

✗ D. TXSP

Q.68 Select the pair that follows the same pattern as that followed by the two set of pairs given below. Both pairs follow the same pattern.
WKA : ULZ
SMY : QNX

Ans

✗ A. DTU : BQW

✗ B. NTS : KVQ

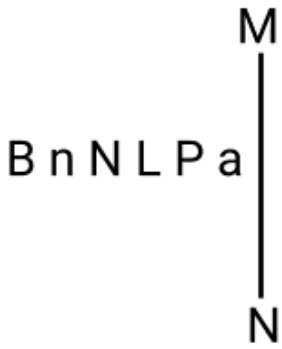
✓ C. OOW : MPV

✗ D. XQN : VSM

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Q.69



Ans

✗ A. ɐ ꟻ ⅃ И B n

✗ B. P a ⅃ И ∩ B

✗ C. ɐ ꟻ ⅃ n N B

✓ D. ɐ ꟻ ⅃ И ∩ B

Q.70 **In a certain code language, 'PALS' is coded as '1245' and 'LAMS' is coded as '5123'. What is the code for 'M' in the given code language?**

Ans

✓ A. 3

✗ B. 2

✗ C. 1

✗ D. 5

Section : **General Awareness**

Q.71 **Which of the following states is NOT connected to the Golden Quadrilateral highway network?**

Ans

✓ A. Kerala

✗ B. Tamil Nadu

✗ C. Andhra Pradesh

✗ D. West Bengal

Q.72 **According to the Census 2011, which of the following union territories of India has the least population density?**

Ans

✗ A. Puducherry

✗ B. Chandigarh

✗ C. Lakshadweep

✓ D. Andaman and Nicobar islands

Q.73 **The idea of Justice (Social, Economic and Political) in the Preamble of Indian Constitution has been taken from the Constitution of _____.**

Ans

✗ A. America

✗ B. Japan

✓ C. Russia

✗ D. France

Q.74 **In which of the following types of forests are the spotted deer found?**

Ans

✗ A. Thorn Forests

✓ B. Montane Forests

✗ C. Deciduous Forests

✗ D. Mangrove Forests

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Q.75 **Senior IAS officer Deepak Kumar was appointed by the Election Commission as the new Home Secretary of which of the following states of India in March 2024?**

Ans

✗ A. Karnataka

✓ B. Uttar Pradesh

✗ C. Odisha

✗ D. West Bengal

Q.76 **Which of the following statements is true about the Animal Birth Control Rules, 2023, notified by the Central Government in April 2023?**

Ans

✗ A. State governments can choose any government veterinary hospital to implement the Animal Birth Control programme.

✗ B. State governments are allowed to formulate guidelines on how to deal with human and stray dog conflicts.

✗ C. Only the state governments are allowed to carry Animal Birth Control.

✓ D. Local bodies are allowed to conduct the Animal Birth Control Programme but only through the Animal Welfare Board of India recognised organisations.

Q.77 **Which of the following programmes aims to improve the food and nutritional status of people experiencing poverty?**

Ans

✓ A. Public Distribution System

✗ B. Craftsmen Training Scheme

✗ C. Pradhan Mantri Kaushal Kendras

✗ D. Skill Loan Scheme

Q.78 **An ant bite is acidic in nature. Which acid is present in ant bites?**

Ans

✗ A. 1. Oxalic acid

✗ B. 2. Lactic acid

✗ C. 3. Acetic acid

✓ D. Formic acid

Q.79 **'Ichthyophis beddomei', a worm-like amphibian that can swim, belongs to which genus?**

Ans

✗ A. Short limbs amphibia

✓ B. Limbless amphibia

✗ C. Long hind limbs amphibia

✗ D. Reduced forelimbs amphibia

Q.80 **Images those are formed on a screen is termed as:**

Ans

✓ A. real

✗ B. virtual

✗ C. imaginary

✗ D. real in some cases

Q.81 **Who among the following has assumed the charge of Chief of Army Training Command, Shimla in 2022?**

Ans

✗ A. Lt Gen Raj Shukla

✗ B. Lt Gen C P Mohanty

✗ C. Lt Gen J S Nain

✓ D. Lt Gen SS Mahal

Q.82 **Arrange the following rulers of the Slave dynasty in the chronological order.**

Ans

✓ A. Ruknuddin Firozshah < Bahramshah < Alauddin Masood Shah < Naseeruddin Mahmood

✗ B. Bahramshah < Ruknuddin Firozshah < Naseeruddin Mahmood < Alauddin Masood Shah

✗ C. Bahramshah < Alauddin Masood Shah < Naseeruddin Mahmood < Ruknuddin Firozshah

✗ D. Naseeruddin Mahmood < Bahramshah < Ruknuddin Firozshah < Alauddin Masood Shah

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Q.83 **Which of the following articles deals with language to be used in the Parliament?**

Ans

✗ A. 121

✗ B. 119

✗ C. 118

✓ D. 120

Q.84 **Who among the following was the founder of Indian Space Research Organisation (ISRO)?**

Ans

✗ A. Dr APJ Abdul Kalam

✗ B. Dr Homi J Bhabha

✗ C. Satish Dhawan

✓ D. Vikram Sarabhai

Q.85 **Which of the following is a feature of the Fiscal Responsibility and Budget Management Act, 2003 (FRBMA)?**

Ans

✗ A. The reduction in fiscal deficit by 0.4 per cent of GDP each year

✗ B. The reduction in fiscal deficit by 0.5 per cent of GDP each year

✓ C. The reduction in fiscal deficit by 0.3 per cent of GDP each year

✗ D. The reduction in fiscal deficit by 0.2 per cent of GDP each year

Q.86 **_____ is a kind of quantitative and qualitative process of change which cannot be measured.**

Ans

✗ A. Progress

✗ B. Growth

✓ C. Evolution

✗ D. Development

Q.87 **Which of the following Articles of the Indian Constitution states that all minorities, whether based on religion or language, shall have the right to establish and administer educational institutions of their choice?**

Ans

✗ A. Article 31

✗ B. Article 29

✗ C. Article 28

✓ D. Article 30

Q.88 **Which of the following statements is/are true about Iltutmish?**
1 He was married to the daughter of Qutb-ud-din Aibak.
2 He was the Governor of Lahore.
3 He nominated his daughter as his successor.

Ans

✗ A. All 1, 2 and 3

✗ B. Only 1 and 2

✓ C. Only 1 and 3

✗ D. Only 2 and 3

Q.89 **Which of the following NABARD subsidiaries sets an objective to provide credit facilities to individuals and other legal entities?**

Ans

✓ A. NABSAMRUDDHI

✗ B. NABCONS

✗ C. NABVENTURE

✗ D. NABFOUNDATION

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Q.90 **Who among the following wrote the book, 'The White Tiger'?**

Ans

✗ A. Rajiv Malhotra

✗ B. Chitra Divakaruni

✗ C. Arundhati Roy

✓ D. Aravind Adiga

Q.91 **Who among the following was the leader of the Wahabi movement in India?**

Ans

✗ A. Sir Syed Ahmed Khan

✓ B. Syed Ahmed Barelvi

✗ C. Jamal Ahmad Khan

✗ D. Shah Waliullah

Q.92 **According to the Indian Meteorological Department (IMD), which season can be observed from October to December?**

Ans

✗ A. Monsoon

✗ B. Pre-monsoon

✗ C. Winter

✓ D. Post-monsoon

Q.93 **Which of the following Indian musicologists is recognised for his role in organising and codifying Hindustani classical music, thereby laying the groundwork for modern education of India's musical heritage?**

Ans

✗ A. Baba Allauddin Khan

✗ B. Ustad Abdul Karim Khan

✗ C. Pandit Vishnu Digambar Paluskar

✓ D. Pandit Vishnu NarayanBhatkhande

Q.94 **Who has become the first woman sniper of the Border Security Force (BSF) in 2024?**

Ans

✗ A. Poonam Yadav

✗ B. Anjali Singh

✗ C. Sunita Sharma

✓ D. Suman Kumari

Q.95 **Indian chess player Raunak Sadhwani, who finished joint second in the Masters group of the 30th Abu Dhabi International Chess Festival that concluded in August 2024, belongs to which city?**

Ans

✗ A. Nashik

✓ B. Nagpur

✗ C. Pune

✗ D. Mumbai

Q.96 **What is the correct sequence of the following Biosphere Reserves of India from east to west?**

1. Sunderban 2. Pachmarhi 3. Achanakmar-Amarkantak 4. Similipal

Ans

✗ A. 1, 3, 4, 2

✗ B. 4, 2, 3, 1

✗ C. 2, 3, 4, 1

✓ D. 1, 4, 3, 2

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Q.97 **Which of the following data sources is used for estimating extreme poverty in India?**

Ans

✗ A. Agricultural production data

✗ B. National Income data

✓ C. Household Consumer Expenditure Surveys

✗ D. National Census data

Q.98 **In which month is the Hornbill festival celebrated in India?**

Ans

✗ A. March

✗ B. July

✗ C. May

✓ D. December

Q.99 **According to the Census of India 2011, which of the following groups of states recorded a population of more than 30 crore?**

Ans

✓ A. Uttar Pradesh and Maharashtra

✗ B. Uttar Pradesh and Madhya Pradesh

✗ C. Bihar and Rajasthan

✗ D. Maharashtra and West Bengal

Q.100 **Asif Ali Zardari, who took oath as Pakistan's 14th President in March 2024, replaced who among the following?**

Ans

✗ A. Mamnoon Hussain

✓ B. Arif Alvi

✗ C. Shahid Khaqan Abbasi

✗ D. Shehbaz Sharif

Q.101 **The laws of inheritance form the foundation of classical genetics. Who among the following first described the laws of inheritance?**

Ans

✓ A. Gregor Mendel

✗ B. 2. Charles Darwin

✗ C. 3. Dmitri Mendeleev

✗ D. 4. Alfred Russel Wallace

Q.102 **The provision of 'Impeachment of President' in the Indian Constitution is borrowed from the Constitution of ____.**

Ans

✗ A. Britain

✗ B. Canada

✗ C. French

✓ D. United States of America

Q.103 **Which of the following is NOT a symptom of Salmonella infection?**

Ans

✗ A. Abdominal cramps

✓ B. Vomiting

✗ C. Diarrhoea

✗ D. Fever

Q.104 **Who among the following was the first-ever Supreme Court Justice against whom a motion for removal was initiated?**

Ans

✗ A. Hon'ble Justice Shanti Sarup Dewan

✗ B. Hon'ble Mr. Justice M.M. Punchhi

✓ C. Hon'ble Mr. Justice Ramaswamy

✗ D. Hon'ble Mr. Justice Jitendra Vir Gupta

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Q.105 **Bhirrana, a Neolithic site, is situated in _____state.**

Ans

✔ A. Haryana

✘ B. Gujarat

✘ C. Madhya Pradesh

✘ D. Rajasthan

Q.106 **Which of the following species of catfish was first discovered in the state of Arunachal Pradesh in March 2023?**

Ans

✘ A. Glyptothorax punyabratai

✘ B. Exostoma sentiyonoae

✔ C. Exostoma dhritiae

✘ D. Amblyceps laticeps

Q.107 **In February 2024, the Cabinet approved the amendment in the Foreign Direct Investment (FDI) policy on Space Sector. According to it, in which of the following sub-sectors 100% FDI through automatic route has been allowed?**

Ans

✘ A. Launch vehicle and systems / sub-systems

✘ B. Satellite manufacturing

✔ C. Manufacturing components and subsystems for satellites

✘ D. Satellite products

Q.108 **Who among the following muslim leaders first propounded the theory of 'Two nations'?**

Ans

✘ A. Muhammad Ali Jinnah

✔ B. Mohammad Iqbal

✘ C. Rahmat Ali Chaudhary

✘ D. Liaqat Ali

Q.109 **Which of the following is the most appropriate definition of Newton's second law?**

Ans

✘ A. The force needed to extend or compress a spring by some distance is proportional to that distance.

✔ B. The acceleration of an object depends on the mass of the object and the amount of force applied.

✘ C. Whenever one object exerts a force on a second object, the second object exerts an equal and opposite force on the first.

✘ D. An object at rest remains at rest, and an object in motion remains in motion at constant speed and in a straight line unless acted on by an unbalanced force.

Q.110 **If you were to advise a state in India to start sesame cultivation as a rabi crop, the state will be from which of the following regions of India?**

Ans

✘ A. Western India

✘ B. Northern India

✔ C. Southern India

✘ D. Eastern India

Q.111 **Who among the following is the ex-officio Chairman of the Rajya Sabha?**

Ans

✘ A. Senior Member of Rajya Sabha

✘ B. President of India

✘ C. Leader of Opposition

✔ D. Vice-President of India

Q.112 **Who among the following is known for his contribution to the foundation of the Jaipur-Atrauli gharana, particularly in the realm of tabla playing?**

Ans

✘ A. Pandit Anindo Chatterjee

✘ B. Pandit Kishan Maharaj

✘ C. Ustad Zakir Hussain

✔ D. Ustad Alladiya Khan

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Q.113 **The Street Vendor's AtmaNirbhar Nidhi (PM SVANidhi) Scheme for micro-credit completed how many years in June 2023?**

Ans

✗ A. 1 year

✗ B. 2 years

✗ C. 4 years

✓ D. 3 years

Q.114 **Which of the following Articles of the Indian Constitution is related to Comptroller and Auditor General (CAG)?**

Ans

✗ A. Article 130

✗ B. Article 135

✓ C. Article 148

✗ D. Article 140

Q.115 **Which of the following is the main measure used to evaluate a nation's economic health?**

Ans

✓ A. Gross Domestic Product (GDP)

✗ B. Net Factor Income from Abroad (NFI)

✗ C. Gross National Product (GNP)

✗ D. National Income

Q.116 **Which of the following was the correct ascending order of administration units of the Rashtrakuta dynasty?**

Ans

✗ A. Bhukti > Rashtra > Vishaya

✗ B. Gana > Bhukti > Desha

✓ C. Bhukti > Vishaya > Rashtra

✗ D. Vishaya > Bhukti > Rashtra

Q.117 **Manu Bhaker and Sarabjot Singh, the first Indian shooting pair to win an Olympic medal in shooting at Paris 2024, defeated players of which country to win the bronze medal?**

Ans

✗ A. Singapore

✗ B. Japan

✗ C. Malaysia

✓ D. South Korea

Q.118 **In September 2024, the World Health Organization (WHO) officially recognised which of the following as the first country in the world to eliminate leprosy?**

Ans

✓ A. Jordan

✗ B. Syria

✗ C. Sudan

✗ D. Nepal

Q.119 **In January 2024, Sarbananda Sonowal launched 'Harit Nauka' guidelines and 'River Cruise Tourism Roadmap, 2047' at the Inland Waterways Development Council (IWDC) in _____.**

Ans

✓ A. Kolkata

✗ B. Bhubaneshwar

✗ C. Vishakhapatnam

✗ D. Thiruvananthapuram

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Q.120 **Which of the following schemes aims to create self-employment opportunities in rural areas?**

Ans

✔ A. Rural Employment Generation Programme

✘ B. Swarnajayanti Gram Swarozgar Yojana

✘ C. Prime Minister's Rozgar Yojana

✘ D. Swarna Jayanti Shahri Rojgar Yojana

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रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS

सी ई एन आर पी एफ - ०१/२०२४ - CEN RPF - 01/2024

Test Date	02/12/2024
Test Time	12:30 PM - 2:00 PM
Subject	RRB RPF SI 2024

*** Note**
Correct Answer will carry 1 mark per Question.
Incorrect Answer will carry 1/3 Negative mark per Question.

1. Options shown in green color with a tick icon are correct.

Section : **Arithmetic**

Q.1 **A hollow spherical shell is made of a metal of density 6 g/cm^3. Its internal and external radius are 2 cm and 4 cm, respectively. What is the weight (in kg) of the shell ?**

$(take\ \pi = \frac{22}{7})$

Ans
- ✗ A. 2.73
- ✓ B. 1.408
- ✗ C. 3.28
- ✗ D. 1.592

Q.2 **A man walks to a viewpoint and returns to the starting point by his car maintaining constant speed and thus takes a total time of 3 hours 30 minutes. He would have gained 3 hours by driving both ways. How long would it have taken for him to walk both ways with same walking speed?**

Ans
- ✗ A. 7 hours 30 minutes
- ✗ B. 5 hours 15 minutes
- ✗ C. 6 hours 45 minutes
- ✓ D. 6 hours 15 minutes

Q.3 **A person covers certain distance in 7 hours at a speed of 4 km/h and some more distance in 2 hours at a speed of 2 km/h. Find his average speed for the entire distance covered.**

Ans
- ✓ A. $3\frac{5}{9}$
- ✗ B. $2\frac{5}{9}$
- ✗ C. $5\frac{5}{9}$
- ✗ D. $4\frac{5}{9}$

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Q.4 Find the value of $\left[(81 \div 3) \times \left\{\frac{40}{8} + \frac{34}{2} \times (9 - 7)\right\}\right]$

Ans
- ✗ A. 1037
- ✗ B. 1067
- ✓ C. 1053
- ✗ D. 1071

Q.5 Given that $2^{0.83} = x$, $2^{0.09} = y$ and $x^z = y^5$, then the value of z is close to:

Ans
- ✗ A. 0.93
- ✓ B. 0.54
- ✗ C. 0.87
- ✗ D. 3.18

Q.6 The ratio of the heights of a right circular cone and a right circular cylinder is 4 : 3 and the ratio of the radii of their bases is 7 : 3. If the volume of the cylinder is 810 cm^3, then the volume (in cm^3) of the cone is:

Ans
- ✓ A. 1960
- ✗ B. 1961
- ✗ C. 1955
- ✗ D. 1966

Q.7 Pranjal's average earning per month in the first three months of a year was ₹19008. In April, his earning was 50% more than the average earning in the first three months. If his average earning per month for the whole year is ₹99708, then what will be Pranjal's average earning (in ₹) per month from May to December?

Ans
- ✗ A. 138867
- ✗ B. 138869
- ✓ C. 138870
- ✗ D. 138871

Q.8 A bank offers 8.8% compound interest per annum calculated on a half-yearly basis. A customer deposits ₹1924 each on 1 January and 1 July of a year. At the end of the year, the amount he would have gained by way of interest is _____. [Give your answer correct to 2 decimal places.]

Ans
- ✓ A. ₹257.69
- ✗ B. ₹247.69
- ✗ C. ₹267.87
- ✗ D. ₹249.4

Q.9 The population of a village was 130000. It increased by 10% in the first year and increased by 30% in the second year. Its population after two years is _____.

Ans
- ✓ A. 185900
- ✗ B. 182000
- ✗ C. 143000
- ✗ D. 169000

Q.10 A man sold an article for ₹630 by first giving a d% discount on its marked price, and then another discount having the same nominal value (in ₹). If the marked price of the article is ₹700, then what is the value of d?

Ans
- ✗ A. 8
- ✓ B. 5
- ✗ C. 9
- ✗ D. 7

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Q.11 **Atul sold 173 chairs and had a gain equal to the selling price of 73 chairs. What is his profit percentage?**

Ans

✗ A. 68%

✗ B. 83%

✓ C. 73%

✗ D. 78%

Q.12 **Evaluate: 33 ÷ 11 × 3 - 3 × 4**

Ans

✗ A. -4

✗ B. 0

✗ C. -1

✓ D. -3

Q.13 **The area of a square plot is 15876 m^2. The length of each side of the plot (in m) is:**

Ans

✓ A. 126

✗ B. 118

✗ C. 106

✗ D. 128

Q.14 **The smallest 1-digit number to be added to the 6-digit number 348510 so that it is completely divisible by 11 is:**

Ans

✗ A. 7

✗ B. 5

✗ C. 9

✓ D. 3

Q.15 $0.1\overline{4} + 0.2\overline{3} + 2$

Ans

✗ A. $2\frac{11}{9}$

✗ B. $2\frac{19}{30}$

✓ C. $2\frac{34}{90}$

✗ D. $2\frac{17}{9}$

Q.16 **The average of eight numbers is 20. The average of five of these numbers is 16. The average of the remaining three numbers is**

Ans

✗ A. 25.67

✓ B. 26.67

✗ C. 28.67

✗ D. 27.67

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Q.17 **Study the given table and answer the question that follows.**

The table shows loan disbursed (in ₹ crores) by four banks in different years.

Banks	Years 1992	1993	1994	1995	1996
P	20	25	47	31	72
Q	28	35	20	43	39
R	31	32	24	18	15
S	33	18	29	34	44
Total	**112**	**110**	**120**	126	**170**

What was the percentage increase of disbursement of loans of all banks together from 1994 to 1995?

Ans

✔ A. 5%

✗ B. 7%

✗ C. 10%

✗ D. 8%

Q.18 **Sunaina and Reema invest in a business in the ratio 3 : 8. If total profit is Rs. 3927, then what is difference between the profit (in Rs.) of Sunaina and Reema?**

Ans

✗ A. 1935

✔ B. 1785

✗ C. 1885

✗ D. 1635

Q.19 **Priya and Ayushi together invested ₹45600 in a business. At the end of the year, out of a total profit of ₹7500, Priya's share was ₹1800. What was the investment of Ayushi?**

Ans

✗ A. ₹32910

✗ B. ₹34445

✗ C. ₹35535

✔ D. ₹34656

Q.20 $\frac{4}{6}+\frac{1}{6}+\frac{4}{12}+\frac{3}{6}-1=$

Ans

✗ A. $\frac{15}{12}$

✔ B. $\frac{8}{12}$

✗ C. $\frac{7}{12}$

✗ D. $-\frac{1}{12}$

Q.21 $0.0\overline{13}+0.\overline{32}$

Ans

✗ A. $\frac{111}{990}$

✗ B. $\frac{111}{999}$

✔ C. $\frac{111}{330}$

✗ D. $\frac{111}{333}$

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Q.22 **20% of a number is more than 20% of 530 by 180. The number is:**

Ans

✔ A. 1430

✘ B. 1280

✘ C. 1530

✘ D. 1480

Q.23 $\frac{6}{9}, \frac{7}{84}, \frac{48}{79}, \frac{48}{55}$

Ans

✘ A. $\frac{6}{9}$

✔ B. $\frac{48}{55}$

✘ C. $\frac{7}{84}$

✘ D. $\frac{48}{79}$

Q.24 **Find the simple interest (in ₹) on ₹2000 at 6.25% per annum rate of interest for the period from 14 February 2023 to 28 April 2023**

Ans

✘ A. 23

✘ B. 26

✔ C. 25

✘ D. 24

Q.25 **The average weight of 6 boxes is 14 kg and the weight of the first box is one-fifth of the remaining boxes. What will be the weight of the first box?**

Ans

✘ A. 10 kg

✘ B. 16 kg

✔ C. 14 kg

✘ D. 12 kg

Q.26 **Vishal covers 285 km in a boat in 45 hours against the stream and he takes 18 hours with the stream then find the speed of the stream?**

Ans

✘ A. 9.17 km/h

✘ B. 7.51 km/h

✔ C. 4.75 km/h

✘ D. 3.35 km/h

Q.27 **How many kilogrammes of rice costing ₹70/kg must be mixed with 63 kg of rice costing ₹90/kg so that there may be a gain of 15% by selling the mixture at ₹96.60/kg?**

Ans

✔ A. 27

✘ B. 63

✘ C. 36

✘ D. 72

Q.28 **Neha and Kajal invest in a business in the ratio 4 : 9. If total profit is Rs. 5590, then what is difference between the profit (in Rs.) of Neha and Kajal?**

Ans

✔ A. 2150

✘ B. 2200

✘ C. 2000

✘ D. 2300

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Q.29 If at same rate of interest, in 2 years, the simple interest is ₹60 and compound interest is ₹66, then what is the principal (in ₹)?

Ans
- ✗ A. 154
- ✗ B. 143
- ✗ C. 145
- ✓ D. 150

Q.30 Suraj covers 424 km in a boat in 48 hours against the stream and he takes 30 hours with the stream then find the speed of the stream?

Ans
- ✓ A. 2.65 km/h
- ✗ B. 10.24 km/h
- ✗ C. 8.74 km/h
- ✗ D. 9.49 km/h

Q.31 The average of eight numbers is 20. The average of five of these numbers is 12. The average of the remaining three numbers is

Ans
- ✗ A. 32.33
- ✗ B. 34.33
- ✓ C. 33.33
- ✗ D. 35.33

Q.32 By selling an article at $\frac{3}{8}$ of its actual selling price, Sharad incurs a los

Ans
- ✗ A. 30.6%
- ✗ B. 31.9%
- ✓ C. 29.6%
- ✗ D. 32.3%

Q.33 Find the value of $\left[(14 \div 7) \times \left\{\frac{84}{6} + \frac{14}{2} \times (5 - 3)\right\}\right]$

Ans
- ✓ A. 56
- ✗ B. 54
- ✗ C. 46
- ✗ D. 42

Q.34 Find the surface area of a sphere whose diameter is equal to 18 cm.

Ans
- ✗ A. 1. 69 cm^2
- ✗ B. 2. 792 cm^2
- ✓ C. 3. 324 cm^2
- ✗ D. 4. 886 cm^2

Q.35 During sale, Raghav bought a notebook marked for ₹50 at 78% discount and a pen marked for ₹100 at 8% discount. How much (in ₹) did he save due to sale?

Ans
- ✗ A. 50
- ✗ B. 44
- ✓ C. 47
- ✗ D. 45

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Section : **General Intelligence and Reasoning**

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Q.36 In a certain code language, 'HUNT' is coded as '9876' and 'USER' is coded as '4361'. What is the code for 'U' in that language?

Ans

✗ A. 8

✗ B. 1

✗ C. 4

✓ D. 6

Q.37 12 is related to 192 following a certain logic. Following the same logic, 17 is related to 272. To which of the following is 24 related, following the same logic?
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting /multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

Ans

✓ A. 384

✗ B. 404

✗ C. 394

✗ D. 374

Q.38 Select the term from among the given options that can replace the question mark (?) in the following series.

FNT -1 HPP -3 ? LTH -27 NVD -81

Ans

✗ A. GFT -5

✗ B. KHF -8

✓ C. JRL -9

✗ D. LKV -7

Q.39 A, B, C, D, E, F and G sit around a circular table facing centre. F sits to the immediate left of G. E sits to the immediate left of C. C sits second to the left of A. B sits third to the left of G. How many people sit between F and E when counted from the left of E?

Ans

✗ A. 2

✓ B. 1

✗ C. 3

✗ D. 4

Q.40 In a certain code language,
A + B means 'A is the daughter of B',
A – B means 'A is the brother of B',
A × B means 'A is the wife of B',
and A % B means 'A is the father of B'.

How is S related to H if 'S + D × F – G % H'?

Ans

✗ A. Mother's brother's daughter

✓ B. Father's brother's daughter

✗ C. Mother's brother's wife

✗ D. Father's brother's wife

Q.41 If 'A' stands for '÷' , 'B' stands for '×', 'C' stands for '+' and 'D' stands for '–' , what will come in place of the question mark '?' in the following equation?
(64 A 4) C 28 D 20 C (46 A 23) B 7 C 19 = ?

Ans

✗ A. 41

✗ B. 69

✗ C. 76

✓ D. 57

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Q.42 **Robert starts from Point A and drives 6 km towards South. He then takes a left turn, drives 8 km, turns left and drives 2 km. He then takes a left turn and drives 5 km. He takes a final right turn, drives 4 km and stops at Point B. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degree turns only unless specified.)**

Ans

✗ A. 3 km towards East

✗ B. 5 km towards West

✗ C. 5 km towards South

✓ D. 3 km towards West

Q.43 **Refer to the following letter, number and symbol series and answer the question that follows. Counting to be done from left to right only.**

(Left) 4 @ 6 K & 2 R G C & T % 7 D Y # 3 5 E * S (Right)

How many such symbols are there which are immediately preceded by a letter and also immediately followed by a number?

Ans

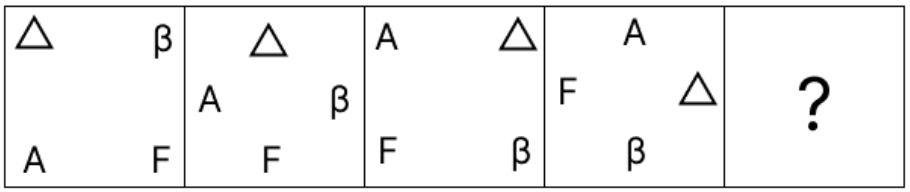
✗ A. 2

✗ B. 4

✗ C. 5

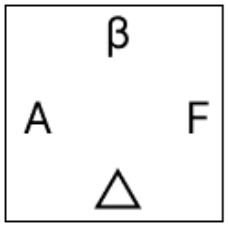
✓ D. 3

Q.44

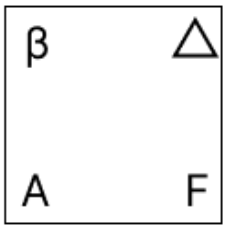


Ans

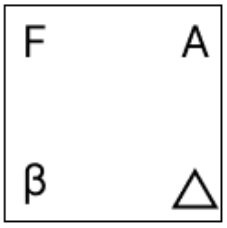
✗ A.



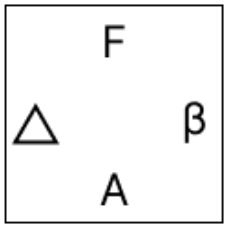
✗ B.



✓ C.



✗ D.



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Q.45 **If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 4635748, what will be the sum of the digits which are second from the left and second from the right in the new number thus formed?**

Ans

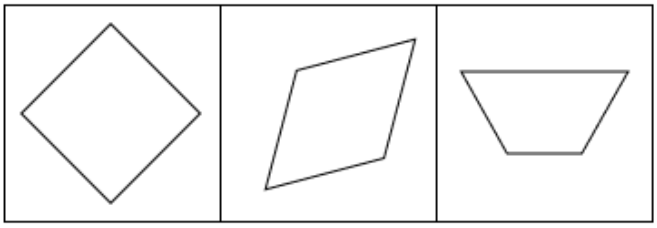
✗ A. 8

✗ B. 2

✓ C. 6

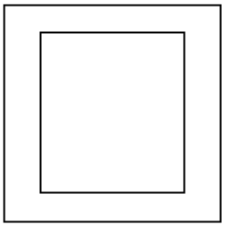
✗ D. 4

Q.46

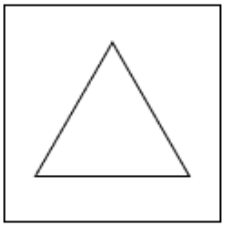


Ans

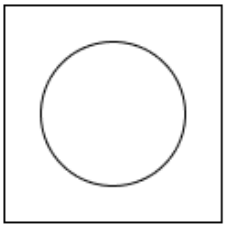
✓ A.



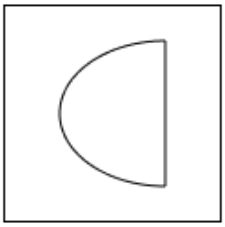
✗ B.



✗ C.



✗ D.



Q.47 **What should come in place of the question mark (?) in the given series?**

38 37 40 39 42 ?

Ans

✗ A. 43

✓ B. 41

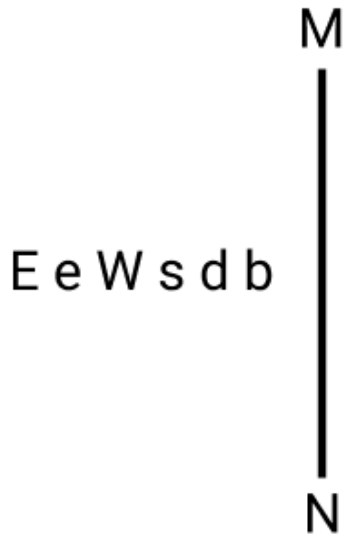
✗ C. 40

✗ D. 44

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Q.48



Ans

✗ A. d b ƨ W E e

✗ B. q p s W ɘ Ǝ

✓ C. d b ƨ W ɘ Ǝ

✗ D. d b ƨ E e W

Q.49 **Rudra starts from Point A and drives 13 km towards west. He then takes a left turn, drives 12 km, turns left and drives 15 km. He then takes a left turn and drives 14 km. He takes a final left turn, drives 2 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degrees turns only unless specified)**

Ans

✓ A. 2 km to the south

✗ B. 4 km to the south

✗ C. 3 km to the south

✗ D. 1 km to the south

Q.50 **This question is based on the five, three-digit numbers given below.**
(Left) 682 745 524 617 539 (Right)
(Example- 697 – First digit = 6, second digit = 9 and third digit = 7)
NOTE - All operations to be done from left to right.
What will be the resultant if the third digit of the second highest number is added to the second digit of the lowest number?

Ans

✗ A. 5

✗ B. 2

✗ C. 3

✓ D. 4

Q.51 **I, J, K, L, P, Q and R are sitting around a square table facing the centre of the table. Only three people sit between P and J. Q sits to the immediate left of J. No one sits to the right of R. Only two people sit between R and Q. K sits to the immediate right of I. How many people sit between L and K?**

Ans

✓ A. Two

✗ B. One

✗ C. Four

✗ D. Three

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Q.52 **Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.**

Statements:
All wafers are candies.
All candies are biscuits.
Some wafers are juices.

Conclusions:
(I): Some candies are juices.
(II): Some biscuits are juices.

Ans
- ✗ A. Onlyconclusion I follows
- ✓ B. Bothconclusions I and IIfollow
- ✗ C. OnlyconclusionII follows
- ✗ D. Neitherconclusion I nor IIfollows

Q.53 **In a certain code language, 'SPAM' is coded as '4592' and 'TAPS' is coded as '5412'. What is the code for 'T' in that language?**

Ans
- ✓ A. 1
- ✗ B. 2
- ✗ C. 5
- ✗ D. 4

Q.54 **Three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which is the letter-cluster pair that does NOT belong to that group?**
(Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)

Ans
- ✓ A. MR - UN
- ✗ B. PS - WZ
- ✗ C. CF - JM
- ✗ D. IL - PS

Q.55 **Refer to the following letter, symbol series and answer the question that follows.**
(Left) 3 Ω 9 $ 7 6 @ 5 1 * # % & 8 2 + 4 £ (Right)
If all the symbols are dropped from the series, which of the following will be fifth from the right?

Ans
- ✗ A. 7
- ✗ B. 8
- ✗ C. 6
- ✓ D. 5

Q.56 **G is the daughter of F. F is the sister of K. K is the son of H. H is the husband of E. How is G related to E?**

Ans
- ✗ A. Mother's sister
- ✓ B. Daughter's daughter
- ✗ C. Daughter's son
- ✗ D. Mother's mother

Q.57 **29 is related to 118 following a certain logic. Following the same logic, 10 is related to 42. To which of the following is 13 related, following the same logic?**
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting /multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

Ans
- ✓ A. 54
- ✗ B. 51
- ✗ C. 56
- ✗ D. 52

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Q.58 Three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which is the letter-cluster pair that does NOT belong to that group?
(Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)

Ans
- ✔ A. XO - RU
- ✘ B. RI - LP
- ✘ C. UL - OS
- ✘ D. OF - IM

Q.59 Six people, named W, X, Y, Z, T and U, each are of different ages. The age of W is 40. The age of Y is one-fourth times the age of T. The age of Z is four times the age of U. The age of T is five times the age of Z. The age of W is two times the age of Y. If The age of U is one-third times the age of X, what is the age of X?

Ans
- ✘ A. 24
- ✘ B. 18
- ✔ C. 12
- ✘ D. 15

Q.60 Select the triad that follows the same pattern as the one followed by the two triads given below. Both triads follow the same pattern.

LH-NJ-PS
NJ-PL-RU

Ans
- ✘ A. OL-RN-TX
- ✔ B. PL-RN-TW
- ✘ C. OL-RM-TX
- ✘ D. PL-RN-TX

Q.61 All 91 people are standing in a row facing north. Fi is 12th from the right end while Yu is 86th from the left end. How many people are there between Fi and Yu?

Ans
- ✘ A. 4
- ✘ B. 6
- ✘ C. 3
- ✔ D. 5

Q.62 Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?

(Note: The odd man out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans
- ✔ A. NRY
- ✘ B. FJP
- ✘ C. JNT
- ✘ D. BFL

Q.63 Each letter in the word CLAUSE is changed to the letter immediately succeeding it in the English alphabetical order and then all the letters thus formed are arranged in alphabetical order. Which of the following letters will be third from the right in the new group of letters thus formed?

Ans
- ✘ A. V
- ✘ B. T
- ✔ C. M
- ✘ D. F

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Q.64 In a certain code language, 'TAIL' is coded as '2463' and 'INKS' is coded as '9351'. What is the code for 'I' in the given code language?

Ans
- ✗ A. 9
- ✗ B. 6
- ✓ C. 3
- ✗ D. 5

Q.65 Seven boxes, A, B, C, D, E, F and G, are kept one over the other but not necessarily in the same order. Only three boxes are kept below D. Only two boxes are kept between D and G. Only C is kept immediately above B. A is kept at some place below F and at some place above E. How many boxes are kept above B?

Ans
- ✗ A. 4
- ✗ B. 2
- ✓ C. 1
- ✗ D. 3

Q.66 Select the pair that follows the same pattern as that followed by the two pairs given below. Both pairs follow the same pattern.

QRU : NTS
KVQ : HXO

Ans
- ✗ A. WKA : ULZ
- ✓ B. EZM : BBK
- ✗ C. SMY : QNX
- ✗ D. KAQ : HCT

Q.67 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

RTW PRU NPS LNQ ?

Ans
- ✗ A. JKO
- ✗ B. JKP
- ✓ C. JLO
- ✗ D. JLP

Q.68 All 47 people are standing in a row facing north. Seema is 22nd from the right end while Bini is 31st from the left end. How many people are there between Seema and Bini?

Ans
- ✗ A. 1
- ✗ B. 3
- ✗ C. 2
- ✓ D. 4

Q.69 Each of the digits in the number 6384921 is arranged in ascending order from left to right. What will be the sum of the digits which are second from the left and second from the right in the new number thus formed?

Ans
- ✓ A. 10
- ✗ B. 7
- ✗ C. 9
- ✗ D. 8

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Q.70 **In the following triad, each group of letters is related to the subsequent one following a certain logic. Select from the given options, the one that follows the same logic.**

PLOT - LTOP - TOLP
BEAN - ENAB - NAEB

Ans
- ✗ A. QUIT - UQIT - TUIQ
- ✗ B. WEST - WSET - TSEW
- ✗ C. TOWN - OTWN - NOWT
- ✓ D. CRAP - RPAC - PARC

Section : **General Awareness**

Q.71 **In which year was the Purvanchal Expressway of Uttar Pradesh, connecting Lucknow and Ghazipur, inaugurated by the Prime Minister of India?**

Ans
- ✗ A. 2023
- ✗ B. 2018
- ✗ C. 2020
- ✓ D. 2021

Q.72 **Which country held the G20 presidency from 1 December 2023 to 30 November 2024?**

Ans
- ✓ A. Brazil
- ✗ B. India
- ✗ C. South Africa
- ✗ D. Indonesia

Q.73 **What is the SI unit of luminous intensity?**

Ans
- ✓ A. candela
- ✗ B. joules
- ✗ C. kelvin
- ✗ D. watt

Q.74 **What is the minimum length of residency required by the Indian Constitution for an individual of Indian descent to be eligible for registration as an Indian citizen?**

Ans
- ✗ A. 5 years
- ✓ B. 7 years
- ✗ C. 2 years
- ✗ D. 10 years

Q.75 **Which Article of the Indian Constitution is related to constitution of High Courts in the Union Territories of India?**

Ans
- ✗ A. Article 239B
- ✓ B. Article 241
- ✗ C. Article 239
- ✗ D. Article 252

Q.76 **Which of the following is a keystone species in the savanna ecosystem?**

Ans
- ✗ A. Giraffe
- ✗ B. Zebra
- ✗ C. Lion
- ✓ D. Elephant

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Q.77 **Who among the following national leaders founded the Forward Block in the year 1939?**

Ans

✔ A. Subhash Chandra Bose

✘ B. Abul Kalam Azad

✘ C. Pandit Govind Ballabh Pant

✘ D. Jawahar Lal Nehru

Q.78 **Identify the economic infrastructure that supports financial activities such as stock trading, a variety of investments and deposits, funding initiatives, and loan remittances, both in India and globally.**

Ans

✘ A. Brokerage firms

✘ B. Asset Management Companies(AMC)

✔ C. Banking Institutions

✘ D. Insurance sectors

Q.79 **1 erg is equal to _____.**

Ans

✔ A. 1. 10^{-7} J

✘ B. 2. 10^{-5} J

✘ C. 4.186 J

✘ D. 4. 10^{7} J

Q.80 **Which of the following eminent persons called the Indian Constitution as 'Lawyer's Paradise and difficult to understand by common Citizen'?**

Ans

✔ A. Ivor Jenning

✘ B. Granville Austin

✘ C. KC Wheare

✘ D. Morris Jones

Q.81 **Which of the following is the socio-religious festival of the Adi community in Arunachal Pradesh?**

Ans

✔ A. Solung festival

✘ B. Rajgir dance festival

✘ C. Bohag Bihu

✘ D. Chhath Puja

Q.82 **Where was the 11th edition of the SAMPRITI military exercise conducted in 2023?**

Ans

✔ A. Umroi, India

✘ B. Chittagong, Bangladesh

✘ C. Kolkata, India

✘ D. Dhaka, Bangladesh

Q.83 **The Central Government introduced the Oilfields (Regulation and Development) Amendment Bill, 2024 in the Lok Sabha in August 2024 to delink petroleum operations from ____.**

Ans

✘ A. maritime activities

✔ B. mining

✘ C. forestry

✘ D. agriculture

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Q.84 **Which of the following articles is concerned with the Comptroller Auditor General of India?**

Ans
- ✗ A. Article 154
- ✗ B. Article 135
- ✗ C. Article 142
- ✓ D. Article 148

Q.85 **The Abhinav Bharat Mandir (Young India Society) was founded by _____ and his brother, as a secret organisation during the Indian War of Independence.**

Ans
- ✗ A. Mahadev Govind Ranade
- ✗ B. Sardar Vallabhbhai Patel
- ✗ C. Damodar Hari Chapekar
- ✓ D. Vinayak Damodar Savarkar

Q.86 **Who was the chairman of the eighth five-year plan of India?**

Ans
- ✗ A. Atal Bihari Vajpayee
- ✗ B. Narendra Modi
- ✓ C. PV Narasimha Rao
- ✗ D. Manmohan Singh

Q.87 **What is the scientific name of 'Eri Silkworm', one of the most exploited, domesticated and commercial non-mulberry silkworms?**

Ans
- ✗ A. Bombyx mori
- ✗ B. Antheraea mylitta
- ✓ C. Philosamia ricinii
- ✗ D. Morus alba

Q.88 **Who among the following is known as the first sovereign ruler of the Delhi sultanate?**

Ans
- ✗ A. Ghaznavid Sultan Mahmud
- ✗ B. Qutb al-Dın Aybak
- ✓ C. Shams al-Din Iltutmish
- ✗ D. Jalal al-Dın Fıruz Khalji

Q.89 **The term 'Ghatam' refers to which percussion instrument commonly used in Carnatic music performances?**

Ans
- ✗ A. Drum
- ✗ B. Cymbals
- ✓ C. Pot
- ✗ D. Tambourine

Q.90 **Which of the following countries has discontinued its 'Golden Visa' programme from 1st January 2024, introduced in 2013, offering residence permits to affluent foreign investors?**

Ans
- ✗ A. Denmark
- ✓ B. The Netherlands
- ✗ C. Austria
- ✗ D. Hungary

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Q.91 **The Kochi-Lakshadweep Submarine Optical Fibre Cable Project launched by Prime Minister Narendra Modi in January, 2024, is being funded by which of the following entities?**

Ans

✗ A. Kerala Government

✓ B. Universal Services Obligation Fund

✗ C. Asian Development Bank

✗ D. World Bank

Q.92 **During the second quarter of the 14th century, three independent kingdoms were established in South India. Which of the following was NOT part of it?**

Ans

✗ A. Ma'bar

✗ B. Bahmani

✗ C. Vijaynagara

✓ D. Daulatabad

Q.93 **Which of the following instruments is NOT commonly used in Hindustani classical music?**

Ans

✗ A. Sarod

✓ B. Ghatam

✗ C. Sitar

✗ D. Veena

Q.94 **How do sustainable agriculture practices contribute to rural development?**

Ans

✗ A. Sustainable practices have minimal impact on rural development and focus only on environmental conservation

✓ B. Through enhancing soil health, water conservation and biodiversity, leading to better long-term agricultural productivity and rural livelihoods

✗ C. They restrict agricultural productivity by limiting the use of modern technologies

✗ D. By increasing dependence on chemical fertilisers and pesticides

Q.95 **Which city won the Smart Cities India Award 2020?**

Ans

✗ A. Varanasi

✓ B. Surat

✗ C. Bengaluru

✗ D. Pune

Q.96 **Who among the following Sultans of Delhi started a new department for the development of agriculture called Diwan-i Kohi?**

Ans

✓ A. Muhammad-bin-Tughlaq

✗ B. Alauddin Khalji

✗ C. Shamsuddin Iltutmish

✗ D. Ghiyasuddin Balban

Q.97 **The 4th edition of Bilateral Exercise between Indian Navy and Bangladesh Navy, BONGOSAGAR-23 was held in the month of _____ in 2023.**

Ans

✗ A. May

✗ B. August

✓ C. November

✗ D. January

Q.98 **Which age group is targeted to be covered in the 'New India Literacy Programme' launched by the Government of India?**

Ans

✗ A. 7 years and above

✗ B. 15 years and below

✓ C. 15 years and above

✗ D. 25 years and below

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Q.99 **Who was named captain of the India's squad for T20I cricket series against Bangladesh played in October 2024?**

Ans
- ✔ A. Suryakumar Yadav
- ✘ B. Hardik Pandya
- ✘ C. Sanju Samson
- ✘ D. Rinku Singh

Q.100 **Kupagal, a Neolithic site, is located in_____.**

Ans
- ✘ A. Kerala
- ✘ B. Telangana
- ✘ C. Andhra Pradesh
- ✔ D. Karnataka

Q.101 **In the context of cellular biology, which of the following statements best describes pseudopodia?**

Ans
- ✔ A. Temporary projections of the cell membrane used for movement and feeding
- ✘ B. Specialised organelles that produce energy for the cell
- ✘ C. Permanent structures on the surface of cells used for locomotion and respiration
- ✘ D. Rigid structures that provide mechanical support to the cell

Q.102 **Which of the following states in India has initiated the TANWA project for women in Agriculture?**

Ans
- ✔ A. Tamilnadu
- ✘ B. Assam
- ✘ C. Goa
- ✘ D. West Bengal

Q.103 **Who among the following wrote the book, 'The Inheritance of Loss'?**

Ans
- ✘ A. Alka Joshi
- ✘ B. Rajiv Malhotra
- ✔ C. Kiran Desai
- ✘ D. Amitav Ghosh

Q.104 **Which of the following was a new introduction to the Advanced Transportation Management system upgraded in October 2023?**

Ans
- ✔ A. Video Incident Detection and Enforcement System (VIDES)
- ✘ B. Radio Frequency Identification (RFID)
- ✘ C. Vehicle Speed Detection System (VSDS)
- ✘ D. Traffic Monitoring Camera System (TMCS)

Q.105 **Silver medalist at the Paris Paralympic games 2024, Thulasimathi Murugesan is associated with which of the following games?**

Ans
- ✔ A. Badminton
- ✘ B. Archery
- ✘ C. Athletics
- ✘ D. Shooting

Q.106 **How does the Reserve Bank of India (RBI) utilise the repo rate to control inflation?**

Ans
- ✘ A. Increasing the repo rate to directly lower the prices of goods and services
- ✘ B. Maintaining a constant repo rate regardless of inflation levels
- ✘ C. Decreasing the repo rate to increase the money supply, encouraging spending and investment
- ✔ D. Increasing the repo rate and making borrowing more expensive for banks, thereby reducing the money supply in the economy

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Q.107 **In the International System of Units (SI), which physical factor has the value $6.62607015 \times 10^{-34}$ joule-hertz^{-1}?**

Ans

✗ A. Von Klitzing constant

✗ B. Stefan–Boltzmann constant

✓ C. Planck's constant

✗ D. Avogadro constant

Q.108 **Name the blue-fluorescent dye that can be used to stain living or fixed cells.**

Ans

✗ A. BODIPY

✗ B. Fuchsin

✗ C. Phalloidin

✓ D. DAPI

Q.109 **Who among the following is the chairperson of the Parliamentary Affairs' Committee in India?**

Ans

✗ A. The Prime Minister

✓ B. The Union Defence Minister

✗ C. The Union Finance Minister

✗ D. The Union Home Minister

Q.110 **In July 2024, Robert Jerard Ravi became the new Chairman and Managing Director (CMD) of which of the following telecom companies?**

Ans

✗ A. Reliance Jio Infocomm

✓ B. Bharat Sanchar Nigam Limited (BSNL)

✗ C. Mahanagar Telephone Nigam Limited (MTNL)

✗ D. Vodafone Idea Limited

Q.111 **Which of the following reform organisations promoted studies of ancient Indian religions, philosophies and doctrines under the guidance of Annie Besant?**

Ans

✗ A. Ramakrishna Mission

✗ B. Arya Samaj

✓ C. Theosophical Society

✗ D. Brahmo Samaj

Q.112 **The 'Soil Health Card' scheme involves all the following, EXCEPT:**

Ans

✗ A. developing and strengthening the functioning of Soil Testing Laboratories

✗ B. providing a basis to address nutrient deficiencies in fertilisation practices

✓ C. doubling of farmers' income

✗ D. promotion of nutrient management practices and balanced use of fertilisers

Q.113 **Which of the following is a characteristic feature of the tropical deciduous forests?**

Ans

✗ A. Dense canopy all year round

✓ B. Trees shed leaves seasonally

✗ C. Sparse vegetation

✗ D. Trees with large leaves

Q.114 **In which year was the Mission Poshan 2.0 scheme launched in India?**

Ans

✓ A. 2021

✗ B. 2023

✗ C. 2020

✗ D. 2024

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Q.115 From 1999 to 2000, how much percentage of working people in India were employed in the secondary sector?

Ans

✗ A. 16.8%

✗ B. 12.8%

✗ C. 23.8%

✓ D. 15.8%

Q.116 Serchhip, which recorded highest literacy in Census 2011, is a district in which of the following states?

Ans

✓ A. Mizoram

✗ B. Kerala

✗ C. Rajasthan

✗ D. Andhra Pradesh

Q.117 India's first artificial satellite, _____, was launched in space by Indian Space Research Organisation.

Ans

✓ A. Aryabhatta

✗ B. ScatSat

✗ C. Resourcesat

✗ D. Bhaskara

Q.118 Which of the following Acts is related to the establishment of High Courts in India?

Ans

✓ A. Indian High Courts Act, 1861

✗ B. Indian Councils Act, 1861

✗ C. Constitution of India Act, 1945

✗ D. Government of India Act, 1861

Q.119 Under the Citizenship Act, 1955, for how many years does a person of Indian origin need to reside in India to become an Indian Citizen?

Ans

✗ A. 5 years

✗ B. 3 years

✗ C. 10 years

✓ D. 7 years

Q.120 What is the correct sequence of the following biosphere reserves of India from north to south?

1. Dibru-Saikhowa 2. Manas 3. Nokrek

Ans

✓ A. 1, 2, 3

✗ B. 1, 3, 2

✗ C. 2, 3, 1

✗ D. 3, 1, 2

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रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS

सी ई एन आर पी एफ - ०१/२०२४ - CEN RPF - 01/2024

Test Date	02/12/2024
Test Time	4:00 PM - 5:30 PM
Subject	RRB RPF SI 2024

*** Note**
Correct Answer will carry 1 mark per Question.
Incorrect Answer will carry 1/3 Negative mark per Question.

1. Options shown in green color with a tick icon are correct.

Section : **Arithmetic**

Q.1 **The smallest 1-digit number to be added to the 6-digit number 405437 so that it is completely divisible by 11 is:**

Ans
- ✔ A. 1
- ✘ B. 3
- ✘ C. 4
- ✘ D. 2

Q.2 **A vendor claims to sell wheat at a loss of 25%. But he cheats by using weights that weigh 55% less than what is mentioned on them. What is his profit percentage (rounded off to 2 decimal places)?**

Ans
- ✘ A. 66.78
- ✘ B. 66.79
- ✔ C. 66.66
- ✘ D. 66.89

Q.3 **Manish's average earning per month in the first three months of a year was ₹8784. In April, his earning was 25% more than the average earning in the first three months. If his average earning per month for the whole year is ₹99085, then what will be Manish's average earning (in ₹) per month from May to December?**

Ans
- ✔ A. 143961
- ✘ B. 143958
- ✘ C. 143962
- ✘ D. 143960

Q.4 **Which of the following ratio is smallest?**

Ans
- ✘ A. 22 : 56
- ✘ B. 29 : 48
- ✘ C. 30 : 31
- ✔ D. 15 : 44

Q.5 **Komal invested a sum of ₹5000 at 20% per annum compound interest, componded annually. If she received an amount of ₹7200 after n years, the value of n is:**

Ans
- ✘ A. 1.4
- ✘ B. 2.5
- ✘ C. 3
- ✔ D. 2

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Q.6 If $28 \times 8 \times 988 \div \sqrt{2704} = y + 649$, then find the value of y.

Ans

✗ A. 3608

✗ B. 3609

✓ C. 3607

✗ D. 3617

Q.7 $\frac{5}{9}, \frac{3}{79}, \frac{14}{45}, \frac{34}{79}$

Ans

✗ A. $\frac{34}{79}$

✗ B. $\frac{14}{45}$

✓ C. $\frac{5}{9}$

✗ D. $\frac{3}{79}$

Q.8 **400 chickooes were bought at ₹1410 per hundred and were sold at a profit of ₹860. Find the selling price (in ₹) per dozen of chickooes.**

Ans

✗ A. 185

✗ B. 210

✓ C. 195

✗ D. 205

Q.9 **At what rate per cent per annum will a certain sum of money multiply itself by 55 times in 2 years, the interest being compounded annually? [Give your answer correct to 1 decimal place.]**

Ans

✗ A. 638.5

✓ B. 641.6

✗ C. 644.2

✗ D. 642.9

Q.10 **The average of eight numbers is 20. The average of five of these numbers is 15. The average of the remaining three numbers is**

Ans

✓ A. 28.33

✗ B. 27.33

✗ C. 30.33

✗ D. 29.33

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Q.11 **A person covers certain distance in 2 hours at a speed of 10 km/h and some more distance in 4 hours at a speed of 6 km/h. Find his average speed for the entire distance covered.**

Ans

✗ A. $8\frac{1}{3}$

✗ B. $6\frac{1}{3}$

✗ C. $9\frac{1}{3}$

✓ D. $7\frac{1}{3}$

Q.12 **For a positive integer b > 1, if the product of two numbers 6344 and 42b8 is divisible by 12, then find the least value of b.**

Ans

✓ A. 4

✗ B. 3

✗ C. 7

✗ D. 5

Q.13 Find the area of polygon ABCDE (in square cm) if AE = 20 cm and AB = 15 cm; quadrilateral BCDE is a square.

Ans

✗ A. $715\ cm^2$

✓ B. $775\ cm^2$

✗ C. $755\ cm^2$

✗ D. $735\ cm^2$

Q.14 **Anmol completes his journey in 10 hours. He covers half the distance at 46 km/h and the rest at 69 km/h. What is the length of the journey (in Km)?**

Ans

✗ A. 549

✗ B. 561

✗ C. 556

✓ D. 552

Q.15 **A water tank is in the form of a right circular cone with radius 3 m and height 14 m. The tank is filled with water at the rate of one cubic metre per second. Find the time taken, in minutes, to fill the tank.**

Ans

✗ A. 6.4

✗ B. 1.5

✗ C. 13.2

✓ D. 2.2

Q.16 **Find the circumference (in m) of the largest circle that can be inscribed in a rectangle whose dimensions are given as 21 m and 115 m.**

$take\ \pi = \frac{22}{7}$

Ans

✗ A. 76

✗ B. 62

✓ C. 66

✗ D. 65

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Q.17 **The population of a village was 130000. It increased by 10% in the first year and increased by 25% in the second year. Its population after two years is _____.**

Ans

✗ A. 162500

✓ B. 178750

✗ C. 175500

✗ D. 143000

Q.18 **A sum, when invested at 20% simple interest per annum, amounts to ₹2160 after 3 years. What is the simple interest (in ₹) on the same sum at the same rate in 2 year?**

Ans

✓ A. 540

✗ B. 1080

✗ C. 2160

✗ D. 270

Q.19 **Find the value of** $\left[(30 \div 5) \times \left\{\frac{30}{6} + \frac{19}{1} \times (4 - 3)\right\}\right]$

Ans

✗ A. 132

✗ B. 155

✗ C. 157

✓ D. 144

Q.20 *The difference between the smallest and the largest fractions among* $\frac{5}{9}, \frac{7}{7}, \frac{11}{26}, \frac{14}{16}$ *is:*

Ans

✓ A. $\frac{15}{26}$

✗ B. $\frac{15}{25}$

✗ C. $\frac{15}{29}$

✗ D. $\frac{15}{24}$

Q.21 **A train runs at a speed of 84 kmph to cover a distance of 336 km and then at a speed of 96 kmph to cover a distance of 192 km. Find the average speed of the train for the entire distance.**

Ans

✗ A. 104 kmph

✗ B. 73 kmph

✗ C. 126 kmph

✓ D. 88 kmph

Q.22 **Given that $87^{0.27} = x$, $87^{0.15} = y$ and $x^z = y^6$, then the value of z is close to:**

Ans

✓ A. 3.33

✗ B. 2.15

✗ C. 3.16

✗ D. 5.77

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Q.23 **Study the given table and answer the question that follows.**

The table shows the monthly expenditure (in ₹) of five people on education, rent, food, conveyance and electricity.

Person	Education	Rent	Food	Conveyance	Electricity
A	5000	3800	4800	3500	2000
B	6400	4000	4500	4000	2400
C	5500	3600	4000	3600	1800
D	6000	4200	5000	4400	2200
E	7000	4400	5500	4000	2500

Find the difference between the average amount spent on education and the average amount spent on conveyance.

Ans

✗ A. ₹1,698

✗ B. ₹1,845

✗ C. ₹2,460

✓ D. ₹2,080

Q.24 *The difference between the smallest and the largest fractions among* $\frac{3}{8}, \frac{5}{9}, \frac{26}{27}, \frac{15}{32}$ *is:*

Ans

✗ A. $\frac{127}{213}$

✗ B. $\frac{127}{219}$

✓ C. $\frac{127}{216}$

✗ D. $\frac{127}{214}$

Q.25 $0.\overline{23} + 0.\overline{2} + 4$

Ans

✗ A. $4\frac{42}{11}$

✓ B. $4\frac{5}{11}$

✗ C. $4\frac{45}{11}$

✗ D. $4\frac{5}{99}$

Q.26 **Simplify the following:**
$[\{(-0.4) + (4.6)^2 + (2.3)^2\} \div 5] - 3.24$

Ans

✗ A. 1.79

✗ B. 1.93

✗ C. 1.39

✓ D. 1.97

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Q.27 A train runs at a speed of 111 kmph to cover a distance of 222 km and then at a speed of 86 kmph to cover a distance of 258 km. Find the average speed of the train for the entire distance.

Ans

✗ A. 117 kmph

✓ B. 96 kmph

✗ C. 72 kmph

✗ D. 86 kmph

Q.28 During sale, Raghav bought a notebook marked for ₹44 at 25% discount and a pen marked for ₹15 at 80% discount. How much (in ₹) did he save due to sale?

Ans

✓ A. 23

✗ B. 25

✗ C. 21

✗ D. 20

Q.29 Lalit's average earning per month in the first three months of a year was ₹4080. In April, his earning was 75% more than the average earning in the first three months. If his average earning per month for the whole year is ₹66405, then what will be Lalit's average earning (in ₹) per month from May to December?

Ans

✓ A. 97185

✗ B. 97180

✗ C. 97183

✗ D. 97184

Q.30 A shopkeeper sells an item for ₹940.8 after giving two successive discounts of 84% and 44% on its marked price. Had he not given any discount, he would have earned a profit of 25%. What is the cost price (in ₹) of the item?

Ans

✓ A. 8400

✗ B. 8363

✗ C. 8404

✗ D. 8441

Q.31 Ishita and Isha invest in a business in the ratio 31 : 23. If total profit is Rs. 2646, then what is difference between the profit (in Rs.) of Ishita and Isha?

Ans

✗ A. 442

✗ B. 292

✗ C. 242

✓ D. 392

Q.32 The average weight of 8 men is decreased by 3 kg when one of them whose weight is 56 kg is replaced by a new man. What is the weight of the new man?

Ans

✗ A. 34 kg

✗ B. 36 kg

✓ C. 32 kg

✗ D. 30 kg

Q.33 The average of eight numbers is 20. The average of five of these numbers is 20. The average of the remaining three numbers is

Ans

✗ A. 22

✗ B. 19

✗ C. 21

✓ D. 20

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Q.34 **The price of fuel decreases by 60%, 30% and 20% in three successive months, but increases by 60% in the fourth month. What is the percentage increase/decrease in the price of fuel in the fourth month as compared to its original price?**

Ans

✗ A. Increases by 67.33%

✗ B. Decreases by 67.12%

✓ C. Decreases by 64.16%

✗ D. Increases by 61.74%

Q.35 **Mansi and Neha together invested ₹40400 in a business. At the end of the year, out of a total profit of ₹5000, Mansi's share was ₹1900. What was the investment of Neha?**

Ans

✗ A. ₹24015

✗ B. ₹26705

✗ C. ₹23380

✓ D. ₹25048

Section : **General Intelligence and Reasoning**

Q.36 **In a certain code language, 'OWNS' is coded as '4957' and 'NEWS' is coded as '9247'. What is the code for 'E' in that language?**

Ans

✗ A. 9

✓ B. 2

✗ C. 4

✗ D. 7

Q.37 **E, A, R, T and H each have different age. Only four people are younger than R. There are only two people who are aged between T and A. H is younger than E but elder than A. How many people are elder than E?**

Ans

✓ A. Two

✗ B. Three

✗ C. One

✗ D. Four

Q.38 **This question is based on the following words.**
PAD SHE NOT WIN
If in each of the words, each letter is changed to the next letter in the English alphabetical order, how many words thus formed will have no vowel?

Ans

✗ A. 3

✗ B. 1

✗ C. 2

✓ D. 0

Q.39 **LMN starts from Point A and drives 18 km towards East. He then takes a right turn, drives 13 km, turns right and drives 29 km. He then takes a right turn and drives 17 km. He takes a final right turn, drives 11 km and stops at Point P. How far (the shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90° turns only, unless specified.)**

Ans

✗ A. 3 km towards south

✗ B. 1 km towards north

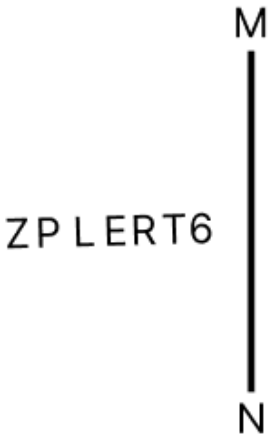
✓ C. 4 km towards south

✗ D. 9 km towards north

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Q.40



Ans

✗ A. ƎTЯƎZPL

✗ B. RT6EJ9Z

✗ C. ƎTERJ9Z

✓ D. ƎTЯƎJ9Z

Q.41 **Ram starts from Point A and drives 6 km towards East. He then takes a right turn, drives 2 km, turns right and drives 3 km. He then takes a left turn and drives 4 km. He takes a final right turn, drives 3 km and stops at Point B. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degree turns only unless specified.)**

Ans

✓ A. 6 km towards North

✗ B. 9 km towards East

✗ C. 9 km towards North

✗ D. 6 km towards South

Q.42 **In a certain code language, 'WARD' is coded as '2619' and 'DART' is coded as '4962'. What is the code for 'T' in the given code language?**

Ans

✗ A. 6

✗ B. 2

✗ C. 9

✓ D. 4

Q.43 **Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of :: ?**

: USN :: PNI : %

Ans

✗ A. # = LKP, % = MKJ

✓ B. # = WUP, % = NLG

✗ C. # = MKI, % = NMJ

✗ D. # = MUP, % = NKJ

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Q.44 **RN 13 is related to TM -6 in a certain way. In the same way, LO 9 is related to NN -10. To which of the following is OS 3 related, following the same logic?**
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

Ans
- ✗ A. PR -14
- ✓ B. QR -16
- ✗ C. QT -16
- ✗ D. PS -19

Q.45 **P, Q, R, U, V and W live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it is numbered 2 and so on till the topmost floor, which is numbered 6.**
V lives on floor number 5. P lives on a floor above V. Only U lives below R. W lives on an even numbered floor. How many people live below Q?

Ans
- ✓ A. Two
- ✗ B. Four
- ✗ C. Three
- ✗ D. One

Q.46 **Refer to the following letter, symbol series and answer the question that follows. Counting to be done from left to right only.**

(Left) F & L A V @ * K Z > N E $ B = M U & # T £ G € Z (Right)

How many such symbols are there each of which are immediately preceded by a letter and also immediately followed by another symbol?

Ans
- ✗ A. One
- ✗ B. Four
- ✓ C. Two
- ✗ D. Three

Q.47 **29 is related to 30.6 following a certain logic. Following the same logic, 35.2 is related to 36.8. To which of the given options is 32 related to, following the same logic?**
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

Ans
- ✓ A. 33.6
- ✗ B. 33.8
- ✗ C. 34.8
- ✗ D. 34.6

Q.48 **Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?**

(Note: The odd man out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans
- ✗ A. BHK
- ✗ B. IOR
- ✓ C. RWZ
- ✗ D. PVY

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Q.49 **Each of P, Q, R, S, T, U and V has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. R has an exam on Wednesday. Exactly 3 people have an exam between R and U. V has an exam immediately after S and Q has an exam immediately before S. Only 3 people have an exam between P and S. Who has an exam on Monday?**

Ans

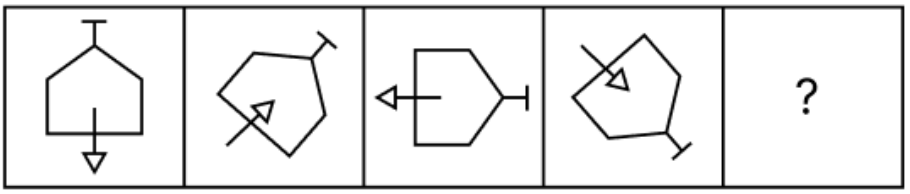
✗ A. Q

✗ B. U

✗ C. V

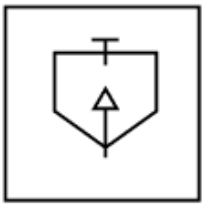
✓ D. P

Q.50

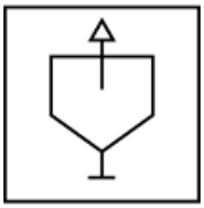


Ans

✗ A.



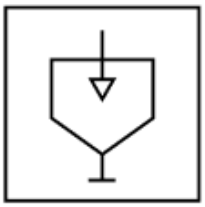
✓ B.



✗ C.



✗ D.



Q.51 **Each of P, Q, R, S, T, U and V go to swim on a different day of a week starting from Monday and ending on Sunday of the same week. P goes to swim on Saturday. Exactly three people go to swim between P and U. Exactly two people go to swim between U and T. Exactly two people go to swim between Q and R. Exactly three people go to swim between S and V. Exactly two people go to swim between S and R.**
When does T go to swim?

Ans

✓ A. Friday

✗ B. Tuesday

✗ C. Monday

✗ D. Sunday

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Q.52 **This question is based on the five, three-digit numbers given below.**

(Left) 479 152 937 512 738 (Right)

(Example- 697 – First digit = 6, second digit = 9 and third digit = 7)

NOTE: All operations to be done from left to right.

If all the numbers are arranged in ascending order, the position(s) of how many numbers will remain unchanged?

Ans

✗ A. 2

✗ B. 1

✗ C. 3

✓ D. 0

Q.53 **What should come in place of the question mark (?) in the given series based on the English alphabetical order?**

TVO RTM PRK NPI ?

Ans

✗ A. LMG

✓ B. LNG

✗ C. LMH

✗ D. LNH

Q.54 **Refer to the following number and symbol series and answer the question that follows. Counting to be done from left to right only.**
(Left) # 9 3 6 9 & & © 9 € 9 8 © 4 $ # 3 4 $ * € £ (Right)
How many such symbols are there which are immediately preceded by a number and also immediately followed by a symbol?

Ans

✓ A. 3

✗ B. 2

✗ C. 5

✗ D. 4

Q.55 **If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 7318456, what will be the sum of the digits that are second from the left and second from the right in the new number thus formed?**

Ans

✓ A. 10

✗ B. 8

✗ C. 14

✗ D. 12

Q.56 **Select the number from among the given options that can replace the question mark (?) in the following series.**

13 22 40 67 103 ?

Ans

✗ A. 155

✓ B. 148

✗ C. 144

✗ D. 152

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Q.57 **I, J, K, L, P, Q and R are sitting around a square table facing the centre of the table. Only two people sit to the right of K. Only two people sit between K and R. Only two people sit between I and Q. Q sits to the immediate left of K. L sits to the immediate right of P. Who sits at the third position from the left end of the line?**

Ans

✗ A. K

✗ B. I

✗ C. P

✓ D. J

Q.58 **In a certain code language, 'inspire others daily' is written as 'lo ab ef' and 'daily routine matters' is coded as 'mo ef tu'. How is 'daily' coded in the given language?**

Ans

✓ A. ef

✗ B. mo

✗ C. tu

✗ D. ab

Q.59 **Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of :: ?**

: LNI :: QSN : %

Ans

✗ A. # = LKD, % = VML

✓ B. # = GID, % = VXS

✗ C. # = JDD, % = VNH

✗ D. # = JHD, % = MJP

Q.60 **What will come in place of the question mark (?) in the following equation, if '+' and '−' are interchanged and '×' and '÷' are interchanged?**

30 ÷ 3 + 14 × 2 − 6 = ?

Ans

✗ A. 87

✗ B. 91

✗ C. 85

✓ D. 89

Q.61 **In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the set in which the numbers are related in the same way as are the numbers of the following sets.**

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

56, 63.4
84, 91.4

Ans

✗ A. 33, 50.4

✓ B. 71, 78.4

✗ C. 95, 112.4

✗ D. 42, 46.4

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Q.62 **Which of the following letter-clusters will replace the question mark (?) in the given series to make it logically complete?**

OEK 16 PJN 9 ? RTT −11 SYW −24

Ans
- ✔ A. QOQ 0
- ✘ B. OUI 9
- ✘ C. ROP 3
- ✘ D. QIO 7

Q.63 **Three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which is the letter-cluster pair that does NOT belong to that group?**
(Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)

Ans
- ✘ A. RO - LI
- ✔ B. VX - RP
- ✘ C. JG - DA
- ✘ D. LI - FC

Q.64 **Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusion(s) logically follow(s) from the statements.**

Statements:
All stoves are cylinders.
All cylinders are mixers.
Some cylinders are grinders.

Conclusions:
(I) Some grinders are cylinders.
(II) Some mixers are grinders.

Ans
- ✘ A. Only conclusion (I) follows.
- ✔ B. Both conclusions (I) and (II) follow.
- ✘ C. Neither conclusion (I) nor (II) follows.
- ✘ D. Only conclusion (II) follows.

Q.65 **Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which letter-cluster pair DOES NOT belong to that group? (Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)**

Ans
- ✘ A. NR-UP
- ✘ B. QU-XS
- ✘ C. BF-ID
- ✔ D. KO-RN

Q.66 **In a certain code language,**
A + B means 'A is the sister of B',
A – B means 'A is the father of B',
A x B means 'A is the brother of B' and
A ÷ B means 'A is the wife of B'.
How is P related to T if 'P x Q ÷ R – S + T'?

Ans
- ✘ A. Father's brother
- ✔ B. Mother's brother
- ✘ C. Daughter's son
- ✘ D. Sister's husband

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Q.67 **A is the daughter of C's sister B. D is the father of C's husband E. How is A related to D?**

Ans

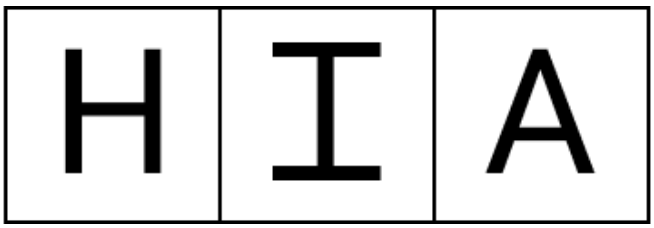
✗ A. Son's wife's brother's sister

✗ B. Wife's sister's daughter

✗ C. Wife's brother's sister

✓ D. Son's wife's sister's daughter

Q.68

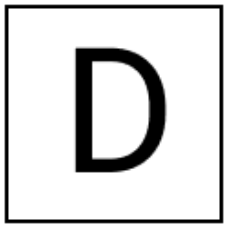


Ans

✗ A.



✗ B.



✓ C.



✗ D.



Q.69 **Seven people, A, B, C, D, E, F and G, are sitting in a row, facing north. Only two people sit between G and C. Only D sits to the right of F. Only one person sits between C and F. A sits at some place to the right of E but at some place to the left of B.**
How many people sit to the right of A?

Ans

✗ A. 2

✓ B. 4

✗ C. 1

✗ D. 3

Q.70 **If 'A' stands for '÷', 'B' stands for '×', 'C' stands for '+' and 'D' stands for '−', what will be come in place of question mark '?' in the following equation?**
3 B 41 A 3 D 34 C 17 = ?

Ans

✗ A. 26

✗ B. 22

✓ C. 24

✗ D. 25

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Q.71 **Who was the first Registrar General and Census Commissioner of India after independence?**

Ans
- ✗ A. Ashok Mitra
- ✓ B. MWM Yeatts
- ✗ C. RB Chari
- ✗ D. Vijay S Verma

Q.72 **Who wrote the book 'Reenchantment - Masterworks of Sculpture in Village Temples of Bihar and Orissa'?**

Ans
- ✗ A. Hermann Hesse
- ✗ B. Henry David Thoreau
- ✗ C. Ralph Waldo Emerson
- ✓ D. Robert N. Linrothe

Q.73 **In which year did C Rajagopalachari voice the demand for a constituent assembly based on adult franchise?**

Ans
- ✗ A. 1940
- ✓ B. 1939
- ✗ C. 1937
- ✗ D. 1938

Q.74 **Earth's magnetism is caused by the:**

Ans
- ✓ A. dynamo effect
- ✗ B. solar effect
- ✗ C. Magnus effect
- ✗ D. Doppler effect

Q.75 **Which of the following Parts of the Indian constitution deals with District Judiciary of India?**

Ans
- ✓ A. VI
- ✗ B. III
- ✗ C. IV
- ✗ D. V

Q.76 **Pala Rulers were primarily great patrons of which religion/sect?**

Ans
- ✗ A. Shaivism
- ✗ B. Vaishnavism
- ✓ C. Buddhism
- ✗ D. Jainism

Q.77 **What unique role does the Small Industries Development Bank of India (SIDBI) play in the growth of SMEs?**

Ans
- ✓ A. Facilitating access to finance for small and medium enterprises
- ✗ B. Providing direct funding to agricultural projects
- ✗ C. Granting educational loans
- ✗ D. Regulating the pharmaceutical industry

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Q.78 **A UV light is passed from an optical fiber into air at an angle of 45° and the refractive index of the fiber is √2. The angle of refraction will be:**

Ans
- ✔ A. 90°
- ✘ B. 30°
- ✘ C. 0°
- ✘ D. 60°

Q.79 **Dena bank was merged with which public sector bank?**

Ans
- ✘ A. State Bank of India
- ✘ B. Punjab National Bank
- ✔ C. Bank of Baroda
- ✘ D. Indian Bank

Q.80 **India's Lakshya Sen lost his men's singles bronze medal match at the Paris 2024 Olympics badminton tournament against a player of which country?**

Ans
- ✘ A. Thailand
- ✘ B. Indonesia
- ✔ C. Malaysia
- ✘ D. China

Q.81 **The UN Trade and Development (UNCTAD) and the Government of Barbados organised the first Global Supply Chain Forum in Barbados in which month in 2024?**

Ans
- ✘ A. September
- ✘ B. August
- ✔ C. May
- ✘ D. March

Q.82 **Who among the following was the Architect of the 'Victoria Memorial' in India?**

Ans
- ✘ A. Erbert Baker
- ✔ B. William Emerson
- ✘ C. George Gilbert Scott
- ✘ D. Arthur Shoosmith

Q.83 **In which of the following places was the Prarthana Samaj set up?**

Ans
- ✘ A. Calcutta
- ✘ B. Nagpur
- ✔ C. Bombay
- ✘ D. Allahabad

Q.84 **Which of the following is NOT considered as technical agrarian reforms?**

Ans
- ✘ A. Use of insecticides and pesticides
- ✔ B. Abolition of intermediaries
- ✘ C. Mechanised means of cultivation
- ✘ D. Scientific farm management practices

Q.85 **Who among the following was awarded with the prestigious International Astronautical Federation World Space Award in October, 2024?**

Ans
- ✘ A. K Sivan
- ✔ B. S Somanathan
- ✘ C. P Veeramuthuvel
- ✘ D. L Murugan

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Q.86 **Which of the following is INCORRECT in relation to the Indian political system?**

Ans

✗ A. Quasi federal system

✗ B. Secular state

✗ C. Parliamentary system of government

✓ D. Presidential system of government

Q.87 **Which of the following arguments is NOT in favour of globalisation?**

Ans

✓ A. It compromises the welfare of the people of the developing countries

✗ B. It is enabled with advanced technology

✗ C. It provides greater access to global markets

✗ D. It promises better future prospects for large industries of developing countries

Q.88 **According to the ancient Indian history, Sulvasutras was related to which of the following?**

Ans

✗ A. Economics

✓ B. Geometry

✗ C. Science

✗ D. Architecture

Q.89 **Who among the following announced the establishment of two National Centres of Excellence (NCOE) exclusively for women on the occasion of International Women's Day on 8 March 2024?**

Ans

✗ A. President of India, Droupadi Murmu

✓ B. Sports Minister of India, Anurag Thakur

✗ C. Union Minister of Women and Child Development, Annpurna Devi

✗ D. Prime Minister of India, Narendra Modi

Q.90 **Who among the following is credited as the originator of the Kirana gharana, a prominent lineage in Hindustani classical music?**

Ans

✓ A. Ustad Abdul Karim Khan

✗ B. Pandit Vishnu Digambar Paluskar

✗ C. Pandit Bhimsen Joshi

✗ D. Ustad Allauddin Khan

Q.91 **Fort William College was founded by _____ to train the young British recruits to the civil services in India.**

Ans

✗ A. Lord Mayo

✓ B. Lord Wellesley

✗ C. Warren Hastings

✗ D. Lord Dalhousie

Q.92 **Mahmud Gawan was granted the title of Chief of the Merchants or Malik-ut-Tujjar by _____.**

Ans

✗ A. Bahman Shah

✓ B. Humayun Shah

✗ C. Ahmad III

✗ D. Muhammmad Shah

Q.93 **Which of the following years is called the great divide year because of the all time low population of India?**

Ans

✗ A. 1911

✗ B. 1931

✓ C. 1921

✗ D. 1941

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Q.94 **As per announcement made by the All India Football Federation on 2 October 2024, which city will host the final rounds of the 78th National Football Championship for the Santosh Trophy?**

Ans

✗ A. Lucknow

✗ B. Guwahati

✓ C. Hyderabad

✗ D. Shillong

Q.95 **Provisions of Directive Principles of State policy are under:**

Ans

✗ A. Articles 32-45

✗ B. Articles 32-52

✗ C. Articles 32-42

✓ D. Articles 36-51

Q.96 **Which of the following is the primary function of the cell membrane?**

Ans

✗ A. Providing structural support

✗ B. Storing genetic information

✓ C. Regulating the passage of substances in and out of the cell

✗ D. Synthesising proteins

Q.97 **Select the correct option if pH=pKa in the Henderson-Hasselbalch equation.**

Ans

✗ A. 1. $[HA]=\log[A^-]$

✗ B. 2. $[HA]<[A^-]$

✓ C. 3. $[HA]=[A^-]$

✗ D. 4. $[HA]>[A^-]$

Q.98 **Which of the following authorities constitute the Ethics Committee in the Rajya Sabha?**

Ans

✗ A. the Speaker of the Lok Sabha

✗ B. The Prime Minister

✓ C. The Chairman of the Rajya Sabha

✗ D. The President

Q.99 **Under which writ the court orders a lower court or another authority to transfer a matter pending before it to the higher authority or court?**

Ans

✗ A. Prohibition

✗ B. Mandamus

✓ C. Certiorari

✗ D. Habeas Corpus

Q.100 **Which of the following is NOT a component of privatisation?**

Ans

✓ A. Public management

✗ B. Private control

✗ C. Private ownership

✗ D. Certain volume of Government control of PPP

Q.101 **Which of the following Articles of the Indian Constitution deals with the extent of executive power of the Union?**

Ans

✗ A. Article 70

✗ B. Article 61

✗ C. Article 78

✓ D. Article 73

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Q.102 **With the objective of developing a vibrant semiconductor ecosystem, in September 2024, the Union Cabinet approved the proposal of Kaynes Semicon Pvt Ltd to set up a semiconductor unit in which of the following places?**

Ans

✗ A. Muzaffarpur, Bihar

✗ B. Khammam, Telangana

✓ C. Sanand, Gujarat

✗ D. Bhilai, Chhattisgarh

Q.103 **Which of the following statements is true with respect to cropping seasons in India?**

Ans

✗ A. The rabi season begins in October-November and facilitates the cultivation of temperate and subtropical crops such as rice, cotton, jute, jowar and bajra.

✗ B. The kharif season largely coincides with the southwest monsoon under which tropical crops such as wheat, gram and mustard are cultivated.

✗ C. The kharif season begins with the onset of winter in October-November and ends in March-April under which the cultivation of tropical crops such as rice, cotton, jute, jowar and bajra is possible.

✓ D. Zaid is a short summer cropping season for cultivating watermelons, cucumbers, vegetables and fodder crops on irrigated lands.

Q.104 **In which year did India achieve a milestone in defense R&D as DRDO conducted a successful flight test of the Indigenous Technology Cruise Missile (ITCM)?**

Ans

✗ A. 2021

✗ B. 2022

✗ C. 2023

✓ D. 2024

Q.105 **The Dark Patterns Buster Hackathon was launched by the Indian government in October 2023 to develop apps, plug-ins, add-ons etc. to identify dark patterns in _____.**

Ans

✗ A. online drug dealing

✓ B. e-Commerce platforms

✗ C. artificial intelligence based chatbots

✗ D. cyber security

Q.106 **The National Commission on Agriculture (1976) of India has classified social forestry into three categories:**

Ans

✗ A. Urban Forestry, Semi Urban Forestry and Rural Forestry

✗ B. Urban Forestry, Semi Urban Forestry and Wild Forestry

✗ C. Urban Forestry, Tribal Forestry and Wild Forestry

✓ D. Urban Forestry, Rural Forestry and Farm Forestry

Q.107 **Kristalina Georgieva has been re-appointed as the MD of which international organisation for a second 5-year term starting from 1 October 2024?**

Ans

✗ A. Food and Agriculture Organization

✓ B. International Monetary Fund

✗ C. World Health Organization

✗ D. United Nations Children's Fund

Q.108 **Which of the following is the main characteristic of the convergent plate boundary?**

Ans

✗ A. Plates slide past each other horizontally.

✓ B. Plates come towards each other.

✗ C. Plates move away from each other.

✗ D. Plates move in the same direction.

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Q.109 Which of the following is the Average propensity to save?

Ans

✗ A. It is the change in saving per unit change in income.

✗ B. It is the consumption per unit income.

✗ C. It is the change in consumption per unit change in income.

✓ D. It is the savings per unit of income.

Q.110 Which of the following is NOT a sub-scheme under the PRITHVI scheme of the Ministry of Earth Sciences?

Ans

✗ A. Atmosphere and Climate Research-Modelling Observing Systems and Services (ACROSS)

✗ B. Polar Science and Cryosphere Research (PACER)

✓ C. Ocean Modelling Agenda (OMEGA)

✗ D. Seismology and Geosciences (SAGE)

Q.111 From which coast, India Successfully carried out a test launch of tactical ballistic missile Prithvi-II on January 10, 2023?

Ans

✗ A. Karnataka

✗ B. Gujarat

✗ C. West Bengal

✓ D. Odisha

Q.112 When was the Sadharan Brahmo Samaj established in British India?

Ans

✗ A. 1830

✓ B. 1878

✗ C. 1868

✗ D. 1875

Q.113 There were constant conflicts between Vijayanagar and _____ over the control of the Raichur doab, which was the land between the rivers Krishna and Tungabhadra.

Ans

✓ A. Bahmani

✗ B. Golconda

✗ C. Ahmednagar

✗ D. Bidar

Q.114 Who is credited with systematising the Hindustani Ragas under the 'Thaat' system?

Ans

✗ A. Miyan Tansen

✗ B. Ustad Vilayat Khan

✗ C. Pandit Jasraj

✓ D. Pandit Vishnu Narayan Bhatkhande

Q.115 In the Thar desert, the day temperature can soar up to 50°C, while at night, it can drop to as low as 15°C. Based on the statement, which of the following types of temperature variation is observed in the Thar desert?

Ans

✓ A. Extreme variation between day and night

✗ B. Minimal variation

✗ C. Constant temperature

✗ D. Moderate variation

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Q.116 Which of the following was the objective of the Setu Bharatam project unveiled by PM Narendra Modi on 4 March 2016?

Ans

✗ A. 1. To construct bridges and overpasses on all major rivers

✗ B. To improve the quality of roads and highways across the country

✓ C. 3.
To remove railway crossings from all national highways

✗ D. 4. To enhance connectivity between rural and urban areas

Q.117 Which Indian Nobel Peace Laureate credited with innovative approach to Child Empowerment through Bal Mitra Gram and Bal Panchayat was made the Sustainable Development Goals Advocate for 2021-2023?

Ans

✓ A. Kailash Satyarthi

✗ B. Venkatraman Ramakrishnan

✗ C. Amartya Sen

✗ D. Abhijit Banerjee

Q.118 What is the term used to describe the different forms of a gene?

Ans

✗ A. Genotype

✓ B. Allele

✗ C. Chromosome

✗ D. Phenotype

Q.119 Which of the following names of 'slash and burn' agriculture is related to India?

Ans

✗ A. Roca

✗ B. Conuco

✓ C. Koman

✗ D. Masole

Q.120 By which of the following processes, do plants release water from the structures called 'hydathodes', on the edges or margins of leaves?

Ans

✗ A. Cytomixis

✓ B. Guttation

✗ C. Cavitation

✗ D. Wilting

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सी ई एन आर पी एफ - ०१/२०२४ - CEN RPF - 01/2024

Test Date	03/12/2024
Test Time	9:00 AM - 10:30 AM
Subject	RRB RPF SI 2024

*** Note**
Correct Answer will carry 1 mark per Question.
Incorrect Answer will carry 1/3 Negative mark per Question.

1. Options shown in green color with a tick icon are correct.

Section : **Arithmetic**

Q.1 **Find the value of** $\left[(23 \times 7) \times \left\{6 \div 6 \times \frac{(17 - 13)}{4}\right\}\right]$

Ans
- ✗ A. 143
- ✓ B. 161
- ✗ C. 158
- ✗ D. 175

Q.2 **What time (in seconds) is required for a 549 m long train to cross a 421 m long tunnel, if the train travels at a speed of 36 km/h?**

Ans
- ✗ A. 89
- ✗ B. 90
- ✗ C. 101
- ✓ D. 97

Q.3 **A sum, when invested at 20% simple interest per annum, amounts to ₹2880 after 3 years. What is the simple interest (in ₹) on the same sum at the same rate in 2 year?**

Ans
- ✗ A. 1440
- ✗ B. 360
- ✗ C. 2880
- ✓ D. 720

Q.4 **The ratio of numbers of girls and boys participating in sports of a school is 1 : 5. If the number of girls is 249, determine the number of boys participating in the sports.**

Ans
- ✓ A. 1245
- ✗ B. 1265
- ✗ C. 1220
- ✗ D. 1275

Q.5 **Nandini and Nandita invest in a business in the ratio 23 : 3. If total profit is Rs. 2522, then what is difference between the profit (in Rs.) of Nandini and Nandita?**

Ans
- ✓ A. 1940
- ✗ B. 1840
- ✗ C. 1790
- ✗ D. 1890

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Q.6 If $26 \times 5 \times 882 \div \sqrt{2401} = y + 695$, then find the value of y.

Ans
- ✗ A. 1651
- ✗ B. 1655
- ✗ C. 1652
- ✓ D. 1645

Q.7 Two right circular cones have heights in the ratio 1 : 9 and their base p

(Use $\pi = \frac{22}{7}$)

Ans
- ✗ A. 25 : 9
- ✗ B. 7 : 25
- ✗ C. 25 : 7
- ✓ D. 9 : 25

Q.8 **If 'a' is the smallest positive integer and the number 8764a529 is completely divisible by 9, then find the value of 17 (3a+5).**

Ans
- ✗ A. 116
- ✗ B. 236
- ✗ C. 126
- ✓ D. 289

Q.9 **The average of 41 numbers is 16. The average of the first 17 numbers is 27 and the average of the last 25 numbers is 26. If the 17th number from the beginning is excluded, then what is the average of the remaining numbers?**

Ans
- ✗ A. 5.5
- ✓ B. 5.075
- ✗ C. 9.085
- ✗ D. 3.43

Q.10 **A number when increased by 50 %', gives 3630. The number is:**

Ans
- ✗ A. 4840
- ✗ B. 7260
- ✓ C. 2420
- ✗ D. 1210

Q.11 $\frac{4}{7}, \frac{4}{45}, \frac{65}{87}, \frac{12}{38}$

Ans
- ✓ A. $\frac{65}{87}$
- ✗ B. $\frac{4}{45}$
- ✗ C. $\frac{12}{38}$
- ✗ D. $\frac{4}{7}$

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Q.12 Anmol completes his journey in 16 hours. He covers half the distance at 30 km/h and the rest at 50 km/h. What is the length of the journey (in Km)?

Ans

✔ A. 600

✘ B. 607

✘ C. 604

✘ D. 599

Q.13 The average weight of P, Q and R is 45 kg and that of Q and R is 20 kg. Find the weight of P.

Ans

✔ A. 95 kg

✘ B. 92 kg

✘ C. 94 kg

✘ D. 90 kg

Q.14 If the interest earned during the 2nd year on a certain sum is ₹6787, and the rate of interest is 10% per annum compounded annually, then the sum is:

Ans

✘ A. ₹62530

✘ B. ₹62005

✘ C. ₹60805

✔ D. ₹61700

Q.15 During sale, Raghav bought a notebook marked for ₹60 at 25% discount and a pen marked for ₹80 at 25% discount. How much (in ₹) did he save due to sale?

Ans

✘ A. 36

✘ B. 38

✔ C. 35

✘ D. 33

Q.16 If x varies inversely as $y^3 - 1$ and is equal to 6 when y = 3, find x when y = 7.

Ans

✘ A. $\frac{28}{57}$

✘ B. $\frac{26}{58}$

✔ C. $\frac{26}{57}$

✘ D. $\frac{27}{58}$

Q.17 If the number 934a6281 is completely divisible by 3 and a be the smallest positive integer, then find the value of (a−2)(a−1)a (a+1)(a+2)(a+3)(a+4).

Ans

✘ A. 5004

✔ B. 5040

✘ C. 4050

✘ D. 5400

Q.18 A shopkeeper marks an article at ₹x and offers a discount of 15% on it. He sells it for ₹408 after charging VAT of 25% on the discounted price. What is the value of ₹ x?

Ans

✘ A. ₹600

✔ B. ₹384

✘ C. ₹300

✘ D. ₹200

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Q.19 **Two trains of equal length are running on parallel lines in the same direction at speeds of 112 km/h and 20 km/h. The faster train passes the slower train in 45 seconds. The length of each train is:**

Ans
- ✔ A. 575 meters
- ✘ B. 563 meters
- ✘ C. 572 meters
- ✘ D. 576 meters

Q.20 **The smallest natural number which is divisible by 16, 88, 12 and 22 is:**

Ans
- ✘ A. 501
- ✔ B. 528
- ✘ C. 476
- ✘ D. 567

Q.21 **The average of 41 numbers is 33. The average of the first 17 numbers is 41 and the average of the last 25 numbers is 27. If the 17th number from the beginning is excluded, then what is the average of the remaining numbers?**

Ans
- ✘ A. 32.215
- ✘ B. 30.1
- ✔ C. 33.35
- ✘ D. 34.53

Q.22 **The expenditure of Sudha is 200% more than her savings. If her expenditure decreases by 4% and savings increase by 28%, then by what percent does her income increase?**

Ans
- ✘ A. 0.08
- ✘ B. 0.07
- ✔ C. 0.04
- ✘ D. 0.09

Q.23 **The average of eight numbers is 20. The average of five of these numbers is 14. The average of the remaining three numbers is**

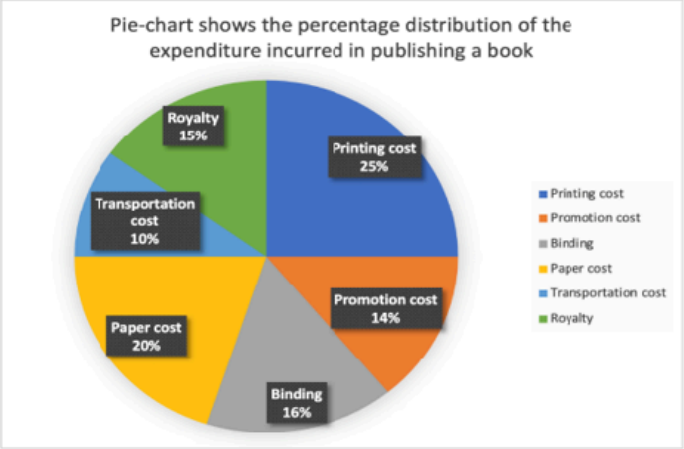
Ans
- ✔ A. 30
- ✘ B. 29
- ✘ C. 31
- ✘ D. 32

Q.24 **400 oranges were bought at ₹1410 per hundred and were sold at a profit of ₹960. Find the selling price (in ₹) per dozen of oranges.**

Ans
- ✘ A. 188
- ✘ B. 208
- ✔ C. 198
- ✘ D. 213

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Q.25 The following pie chart shows the percentage distribution of the expenditure incurred in publishing a book.



If, for a certain quantity of books, the publisher pays ₹20,400 as paper cost, then what is the difference between printing cost and royalty (in ₹) for these books?

Ans

✗ A. 13600

✓ B. 10200

✗ C. 12400

✗ D. 11600

Q.26 **A shopkeeper lists the price of a fan at 20% above its cost price and offers a 15% discount on its list price. If he earns a profit of ₹190, then what is the list price (in ₹) of the fan?**

Ans

✗ A. 11243

✗ B. 11549

✓ C. 11400

✗ D. 11528

Q.27 $\frac{1}{7}+\frac{5}{7}+\frac{2}{14}+\frac{4}{7}-2=$

Ans

✗ A. $-\frac{3}{14}$

✗ B. $-\frac{5}{14}$

✗ C. $-\frac{8}{14}$

✓ D. $-\frac{6}{14}$

Q.28 **The average price of three items of furniture is Rs 15855. If their prices are in the ratio 3:5:7, the price of the costliest item (in Rs) is**

Ans

✓ A. 22197

✗ B. 5285

✗ C. 7399

✗ D. 3171

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Q.29 $Take\ \pi = \frac{22}{7}$

Ans

✗ A. $\sqrt{\frac{535}{33}}$

✗ B. $\sqrt{\frac{541}{66}}$

✗ C. $\sqrt{\frac{541}{33}}$

✓ D. $\sqrt{\frac{532}{33}}$

Q.30 **A cone is 12.6 cm high and the radius of the base is 3.2 cm. It is melted and recast into a sphere. Determine the radius of the sphere.(Correct up to one decimal place)**

Ans

✗ A. 1.2 cm

✗ B. 2.1 cm

✗ C. 2.9 cm

✓ D. 3.2 cm

Q.31 If $24 \times 9 \times 720 \div \sqrt{2304} = y + 925$, then find the value of y.

Ans

✗ A. 2307

✗ B. 2316

✗ C. 2310

✓ D. 2315

Q.32 **A bank offers 8.1% compound interest per annum calculated on a half-yearly basis. A customer deposits ₹8445 each on 1 January and 1 July of a year. At the end of the year, the amount he would have gained by way of interest is _____. [Give your answer correct to 2 decimal places.]**

Ans

✗ A. ₹1048.4

✗ B. ₹1069.91

✓ C. ₹1039.91

✗ D. ₹1057.26

Q.33 **The smallest 1-digit number to be added to the 6-digit number 318833 so that it is completely divisible by 11 is:**

Ans

✗ A. 5

✓ B. 2

✗ C. 7

✗ D. 3

Q.34 **If a 1952 m long train crosses a pole in 122 seconds, then find the time (in seconds) taken by the train to cross a 160 m long platform.**

Ans

✗ A. 128

✗ B. 137

✗ C. 135

✓ D. 132

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Q.35 $0.\overline{23} + 0.\overline{54} + 0.\overline{3}$

Ans

✗ A. $\frac{10}{99}$

✗ B. $\frac{11}{9}$

✓ C. $\frac{10}{9}$

✗ D. $\frac{11}{99}$

Section : **General Intelligence and Reasoning**

Q.36 **A, B, C, D, E, F and G sit in a straight line facing North. Only two people sit to the right of G. Only two people sit between G and E. Only two people sit between D and B. B sits to the immediate left of G. A sits to the immediate right of F. How many people sit between D and F?**

Ans

✗ A. 3

✗ B. 2

✓ C. 4

✗ D. 1

Q.37 **G is the father of H. H is the mother of J. J is the brother of K. K is the son of L. How is G related to L?**

Ans

✗ A. Wife's brother

✗ B. Husband's father

✓ C. Wife's father

✗ D. Husband's mother

Q.38 **Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?**
(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans

✗ A. XVW

✗ B. TRS

✗ C. WUV

✓ D. EDD

Q.39 **Among five people named A, B, C, D and E, each have a certain age. C is thrice the age of D. The age of A is 3. D is half the age of E. B is twice the age of A. If E is four times the age of B, what is the age of C?**

Ans

✗ A. 40

✗ B. 38

✗ C. 34

✓ D. 36

Q.40 **If 2 is added to each even digit and 1 is subtracted from each odd digit in the number 6159247, what will be the sum of the first two digits from the left in the new number thus formed?**

Ans

✓ A. 8

✗ B. 14

✗ C. 16

✗ D. 12

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Q.41 **In a certain code language, 'CONE' is coded as '1649' and 'NECK' is coded as '2169'. What is the code for 'K' in that language?**

Ans

✗ A. 9

✗ B. 6

✓ C. 2

✗ D. 1

Q.42 **In a certain code language, 'CHAT' is coded as '1583' and 'ACTS' is coded as '5718'. What is the code for 'S' in that language?**

Ans

✗ A. 8

✓ B. 7

✗ C. 5

✗ D. 1

Q.43 **Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of ::?**

: KMR :: BDI : %

Ans

✓ A. # = DFK; % = IKP

✗ B. # = EFK; % = IKP

✗ C. # = DFK; % = IKO

✗ D. # = DFK; % = IMP

Q.44 **Based on the English alphabetical order, three of the following four are alike in a certain way and thus form a group. Which is the one that DOES NOT belong to that group?**

Ans

✓ A. PKV

✗ B. CXH

✗ C. LGQ

✗ D. XSC

Q.45 **In a certain code language, 'FAIR' is coded as '8547' and 'RAFT' is coded as '5486'. What is the code for 'T' in the given code language?**

Ans

✗ A. 4

✗ B. 8

✗ C. 5

✓ D. 6

Q.46 **Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?**

ENS 103 HKV 95 KHY 87 NEB 79 QBE 71 ?

Ans

✗ A. SXF 61

✗ B. UZG 61

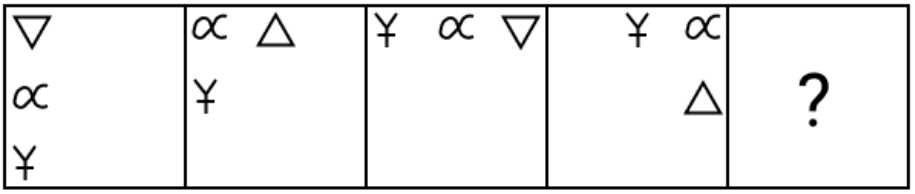
✓ C. TYH 63

✗ D. UYK 63

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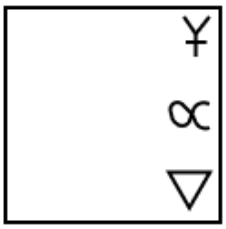
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Q.47

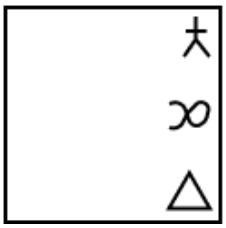


Ans

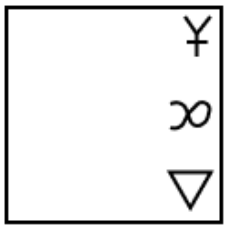
✔ A.



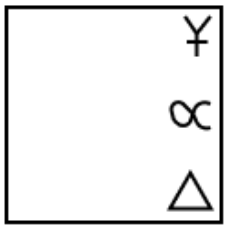
✘ B.



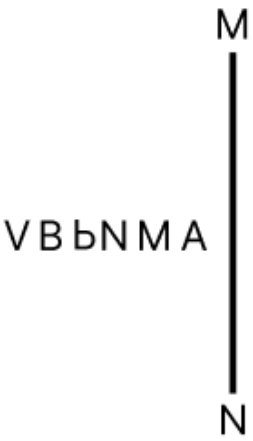
✘ C.



✘ D.



Q.48



Ans

✔ A. AMИdBV

✘ B. AMbNBV

✘ C. AMИdVB

✘ D. MAИdBV

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Q.49 **Which numbers should come in place of the question marks (?) in the same sequence to make the series logically complete?**
125 127 131 137 145 ? 167 ?

Ans
- ✗ A. 159, 189
- ✗ B. 156, 185
- ✗ C. 152, 182
- ✓ D. 155, 181

Q.50 **DEF starts from Point A and drives 7 km towards south. He then takes a right turn, drives 19 km, turns right and drives 23 km. He then takes a right turn and drives 27 km. He takes a final right turn, drives 16 km and stops at Point P. How far (the shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90° turns only, unless specified.)**

Ans
- ✗ A. 5 km towards east
- ✗ B. 3 km towards south
- ✗ C. 9 km towards north
- ✓ D. 8 km towards west

Q.51 **A, B, C, D, E and F live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it, number 2 and so on till the topmost floor is numbered 6. B lives on a floor that is a prime number. The product of the floors on which B and E live is 3. Only 2 people live above D. F lives immediately below C How many people live between A and F?**

Ans
- ✓ A. 1
- ✗ B. 3
- ✗ C. 4
- ✗ D. 2

Q.52 **What will come in the place of the question mark '?' in the following equation, if '+' and '−' are interchanged and '×' and '÷' are interchanged?**
52 + 2 × 3 ÷ 6 − 42 + 11 × 3 ÷ 3 = ?

Ans
- ✓ A. 79
- ✗ B. 98
- ✗ C. 118
- ✗ D. 102

Q.53 **Refer to the following number, symbol series and answer the question that follows. Counting to be done from left to right only.**

(Left) 2 & % 4 6 Ω 7 $ £ 8 & @ 3 # 1 5 * 9 (Right)

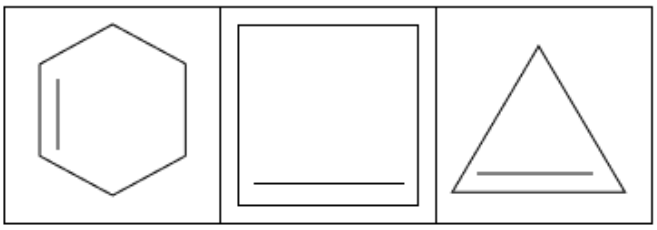
How many such symbols are there each of which is immediately preceded by a number and also immediately followed by another number?

Ans
- ✗ A. One
- ✗ B. Two
- ✗ C. None
- ✓ D. More than two

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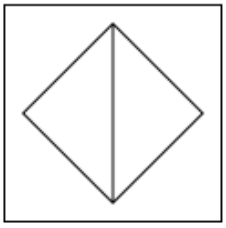
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Q.54

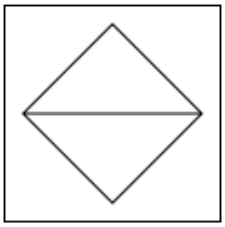


Ans

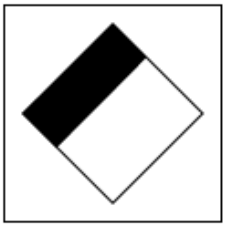
✗ A.



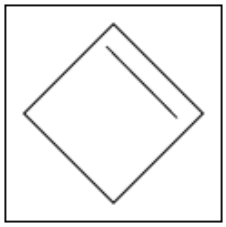
✗ B.



✗ C.



✓ D.



Q.55 **Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?**

(Note: The odd man out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans

✗ A. ADI

✓ B. EKN

✗ C. GJO

✗ D. CFK

Q.56 **CGJB is related to EILD in a certain way based on the English alphabetical order. In the same way, FJME is related to HLOG. To which of the following is IMPH related, following the same logic?**

Ans

✗ A. OKRJ

✓ B. KORJ

✗ C. OKJR

✗ D. KOJR

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Q.57 **Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number results in the second number. Similarly, certain mathematical operation(s) on the second number results in the third number and so on. Which of the given options follows the same set of operations as in the given sets? (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting /multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)**

36 - 18 - 20.4 - 22.8
48 - 24 - 26.4 - 28.8

Ans
- ✗ A. 42 - 14 - 16.4 - 18.8
- ✗ B. 48 - 24 - 28.4 - 30.8
- ✓ C. 54 - 27 - 29.4 - 31.8
- ✗ D. 72 - 36 - 36.4 - 38.8

Q.58 **16 is related to 62 following a certain logic. Following the same logic, 12 is related to 46. To which of the given options is 21 related to, following the same logic? (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)**

Ans
- ✗ A. 80
- ✓ B. 82
- ✗ C. 86
- ✗ D. 84

Q.59 **Vidit starts from Point A and drives 7 km towards South. He then takes a left turn, drives 5 km, turns left and drives 9 km. He then takes a left turn and drives 8 km. He takes a final left turn, drives 2 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degree turns only unless specified.)**

Ans
- ✗ A. 3 km to the west
- ✗ B. 4 km to the west
- ✓ C. 3 km to the east
- ✗ D. 4 km to the east

Q.60 **Seven boxes Q, R, S, T, U, V and F are kept one over the other but not necessarily in the same order. Only five boxes are kept between S and U. Only S is kept above V. Only two boxes are kept between Q and T. R is kept immediately above F. T is not kept immediately above R. How many boxes are kept between R and T?**

Ans
- ✗ A. Four
- ✗ B. Three
- ✗ C. Two
- ✓ D. One

Q.61 **Refer to the following letter, symbol series and answer the question that follows. (Counting to be done from left to right only.)**

(Left) 7 % 4 £ 5 $ & 3 Ω + 2 6 @ 8 9 # 1 * ^ (Right)

How many symbols in the series are immediately preceded by another symbol and also immediately followed by a number?

Ans
- ✗ A. 0
- ✓ B. 2
- ✗ C. 1
- ✗ D. 3

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Q.62 Seven people, M, N, O, P, Q, R and T, are sitting around a circular table facing the centre of the table. Only two people sit between T and N when counted from the right of T. Only two people sit between R and P when counted from the right of R. M sits to the immediate right of P. M sits second to the left of T. Q is not an immediate neighbour of R. Who sits immediately to the left of O?

Ans

✗ A. Q

✓ B. R

✗ C. P

✗ D. N

Q.63 Each letter in the word COARSE is changed to the letter immediately succeeding it in the English alphabetical order and then all the letters thus formed are arranged in alphabetical order. Which of the following letters will be third from the right in the new group of letters thus formed?

Ans

✗ A. F

✓ B. P

✗ C. D

✗ D. S

Q.64 Each of P, Q, R, S, T, U and V go to play on a different day of a week starting from Monday and ending on Sunday of the same week.
S goes to play on Tuesday. Exactly two people go to play between S and P. Exactly two people go to play between V and U. Q goes to play on the day immediately after V. Only one person goes to play between R and V. Q goes to play on one of the days after P.
Who goes to play on Monday?

Ans

✗ A. R

✓ B. T

✗ C. U

✗ D. V

Q.65 If 2 is added to each odd digit and 1 is subtracted from each even digit in the number 2836574, what will be the sum of the digits which are third from the left and third from the right in the new number thus formed?

Ans

✗ A. 9

✗ B. 10

✗ C. 7

✓ D. 12

Q.66 Each vowel in the word LASTING is changed to the letter immediately following it in the English alphabetical order and each consonant is changed to the letter immediately preceding it in the English alphabetical order. How many vowels are there in the group of letters thus formed?

Ans

✓ A. 0

✗ B. 1

✗ C. 3

✗ D. 2

Q.67 In a certain code language,
A + B means 'A is the son of B',
A – B means 'A is the brother of B',
A × B means 'A is the wife of B',
and A % B means 'A is the father of B'.

How is S related to H if 'S % D – F × G + H'?

Ans

✗ A. Wife's father

✗ B. Wife's brother

✓ C. Son's wife's father

✗ D. Son's wife's brother

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Q.68 **Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusion(s) logically follow(s) from the statements.**

Statements:
All wafers are biscuits.
All biscuits are cookies.
All cookies are pastries.

Conclusions:
(I) All biscuits are wafers.
(II) All pastries are cookies.

Ans
- ✗ A. Only conclusion (II) follows.
- ✗ B. Both conclusions (I) and (II) follow.
- ✗ C. Only conclusion (I) follows.
- ✓ D. Neither conclusion (I) nor (II) follows.

Q.69 **In the following triads, each group of letters is related to the subsequent one following a certain logic. Select from the given options, the one that follows the same logic.**

DIET - IDET - TEID
WASH - AWSH - HSAW

Ans
- ✗ A. TONG - OTNG - ONGT
- ✓ B. FUME - UFME - EMUF
- ✗ C. SANG - ASNG - GANS
- ✗ D. HUTS - HTUS - STUH

Q.70 **Select the term from among the given options that can replace the question mark (?) in the following series.**

TUM 21 RVP 15 ? NXV 3 LYY -3

Ans
- ✗ A. ORP 9
- ✓ B. PWS 9
- ✗ C. QSP 8
- ✗ D. PSR 8

Section : **General Awareness**

Q.71 **According to the basic road statistics (2017-18) provided by the Ministry of Road Transport and Highways, which state has the largest total surface road length in India?**

Ans
- ✗ A. Rajasthan
- ✓ B. Maharashtra
- ✗ C. Uttar Pradesh
- ✗ D. Madhya Pradesh

Q.72 **Rohit Sharma finished at which position in the table of leading run-scorers in the Men's T20 World Cup 2024 tournament?**

Ans
- ✗ A. Third
- ✗ B. Fifth
- ✗ C. First
- ✓ D. Second

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Q.73 **Which of the following is the standard unit of energy in the International System of Units (SI)?**

Ans
- ✗ A. Watt (W)
- ✓ B. Joule (J)
- ✗ C. Newton (N)
- ✗ D. Pascal (Pa)

Q.74 **Which Amendment has made the Right to Education a Fundamental Right?**

Ans
- ✗ A. 1. 90th Amendment
- ✗ B. 2. 92nd Amendment
- ✓ C. 3. 86th Amendment
- ✗ D. 4. 75th Amendment

Q.75 **Which writ is issued against executive and inferior judicial bodies to perform their duties which they have failed to perform?**

Ans
- ✗ A. Quo Warranto
- ✓ B. Mandamus
- ✗ C. Certiorari
- ✗ D. Prohibition

Q.76 **Who is the head of Union Executive in India?**

Ans
- ✗ A. The Prime Minister
- ✓ B. The President
- ✗ C. Chief Justice of Supreme Court
- ✗ D. The Governor

Q.77 **Kulottunga I was a king of which of the following dynasties?**

Ans
- ✗ A. Pandya
- ✗ B. Gurjara-Partihara
- ✓ C. Chola
- ✗ D. Rashtrakuta

Q.78 **Vigyan Yuva 2024 awardee in Biological Sciences category, Prof. Aravind Penmatsa, is Assistant Professor at which of the following institutions?**

Ans
- ✗ A. IIM Dhanbad
- ✗ B. IIT Bombay
- ✓ C. IISc Bengaluru
- ✗ D. IISER Bhopal

Q.79 **What is the main focus of the 'Kuposhan Mukt Jharkhand' event chaired by Annpurna Devi?**

Ans
- ✗ A. Increasing child participation in politics
- ✗ B. Improving child education for their welfare
- ✓ C. Improving nutritional standards and child welfare
- ✗ D. Improving women standards

Q.80 **Which of the following is the 'Utility of a commodity'?**

Ans
- ✗ A. 1. It is the want of dissatisfying the capacity of a commodity.
- ✗ B. 2. It is the desire of dissatisfying the capacity of a commodity.
- ✓ C. It is the want of satisfying the capacity of a commodity.
- ✗ D. 4. It is the desire to satisfy the capacity of a commodity.

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Q.81 **'Kathasaritasagara' is a collection of stories composed in _____.**

Ans

✗ A. Prakrit

✗ B. Tamil

✓ C. Sanskrit

✗ D. Telugu

Q.82 **In which of the following years was the Overseas Citizenship of India Scheme introduced by amending Citizenship Act 1955?**

Ans

✗ A. 2001

✓ B. 2005

✗ C. 2009

✗ D. 2004

Q.83 **Which of the following is a form of folk music?**

Ans

✗ A. Dhrupad

✗ B. Bhand pather

✓ C. Naworia-geet

✗ D. Sufiana kalam

Q.84 **Which of the following sites is better known as a Chalcolithic Site?**

Ans

✗ A. Burzahom

✗ B. Utnur

✓ C. Kayatha

✗ D. Mehrgarh

Q.85 **Which of the following statements is/are true for the Carnatic Music in India?**
1.Gitam is the simplest type of composition.
2.Khayal is a part of Carnatic Classical music.
3.Padas are scholarly compositions in Telugu and Tamil languages.

Ans

✓ A. Both 1 and 3

✗ B. Both 1 and 2

✗ C. Only 2

✗ D. Both 2 and 3

Q.86 **'Globbatyrnaensis', a species of ginger, was discovered for the first time in September 2024 by scientists from the Indian Institute of Science Education and Research, Bhopal, from which of the following states?**

Ans

✗ A. Madhya Pradesh

✓ B. Meghalaya

✗ C. Uttarakhand

✗ D. Kerala

Q.87 **Name the scientist who developed the process of deciphering the genetic code in the living cells in the 1960s.**

Ans

✗ A. Erich von Tschermak

✗ B. Wilhelm Johannsen

✗ C. Archibald Garrod

✓ D. Marshall Nirenberg

Q.88 **Cold sores are painful blisters caused by infection from which virus?**

Ans

✗ A. WNV

✗ B. H7N9

✗ C. HPV

✓ D. HSV-1

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Q.89 **Which of the following is responsible for the protection and enforcement of Fundamental Rights in India?**

Ans

✗ A. Union Public Service Commission (UPSC)

✓ B. Supreme Court of India

✗ C. Election Commission of India

✗ D. National Human Rights Commission (NHRC)

Q.90 **_____ is a quantitative process of change of scale and size, which can be measured and aided by ethics and norms.**

Ans

✗ A. Progress

✗ B. Evolution

✓ C. Development

✗ D. Growth

Q.91 **In 1991, in order to make international adjustment the rupee was:**

Ans

✓ A. devalued

✗ B. appreciated

✗ C. printed

✗ D. stabilised

Q.92 **A lens has a power of −0.25D. What is the nature and focal length of this lens?**

Ans

✗ A. Convex lens of focal length 4 metres

✗ B. Concave lens of focal length −2 metres

✓ C. Concave lens of focal length −4 metres

✗ D. Convex lens of focal length −8 metres

Q.93 **The Kharif season in India is associated with the cultivation of which of the following crops?**

Ans

✓ A. Rice

✗ B. Barley

✗ C. Gram

✗ D. Wheat

Q.94 **The world's only multilateral decision-making forum on climate change with almost complete membership of every country in the world, the United Nations Climate Change Conference, COP28, took place at which place from 30 November to 12 December 2023?**

Ans

✗ A. Glasgow

✗ B. New Delhi

✓ C. Dubai

✗ D. Baku

Q.95 **The Barak River, a headstream of Meghna, rises in which of the following states?**

Ans

✗ A. Assam

✗ B. West Bengal

✗ C. Arunachal Pradesh

✓ D. Manipur

Q.96 **The World bank comprises of _____.**

Ans

✗ A. IMF

✗ B. WTO

✓ C. IBRD

✗ D. GATT

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Q.97 **Which of the following statements is FALSE?**

Ans

✗ A. All members of the Council of Ministers hold office during the pleasure of the President.

✗ B. According to Article 77, all executive actions of the Government of India shall be exeucted in the name of the President.

✓ C. Article 76 provides for a Council of Ministers headed by the Prime Minister.

✗ D. According to Article 74, the President will act only on the advice of the Council of Ministers.

Q.98 **The _____ direct(s) and guide(s) the nation/state for equitable society and provide(s) module to the government in formulating policies and enactment of laws.**

Ans

✓ A. Directive Principles

✗ B. Enforcement Directorate

✗ C. Judiciary

✗ D. Bureaucracy

Q.99 **Where was the inaugural edition of the India-Saudi Arabia Joint Military Exercise 'SADA TANSEEQ' conducted in 2024?**

Ans

✗ A. Jaipur, Rajasthan

✗ B. Jaisalmer, Rajasthan

✗ C. Suratgarh, Rajasthan

✓ D. Mahajan, Rajasthan

Q.100 **Which of the following rivers is known for NOT draining into the sea but rather into salt lakes or sand?**

Ans

✓ A. Luni

✗ B. Chambal

✗ C. Mahanadi

✗ D. Krishna

Q.101 **Indian cricketer Virat Kohli equalled Sachin Tendulkar's record of the most ODI centuries with his 49th hundred against which country in November 2023?**

Ans

✓ A. South Africa

✗ B. England

✗ C. Australia

✗ D. Pakistan

Q.102 **Who among the following founded the 'Satya Shodhak Samaj', in 1873?**

Ans

✓ A. Jyotirao Govindrao Phule

✗ B. Raja Rammohan Roy

✗ C. Ishwar Chandra Vidyasagar

✗ D. Radhakant Deb

Q.103 **During Delhi Sultanate period who brought capital back from Lahore to Delhi?**

Ans

✗ A. Chenghiz Khan

✓ B. Iltutmish

✗ C. Qutbuddin Aibak

✗ D. Nasiruddin Qubacha

Q.104 **Which of the following states recorded a population of more than 10 crore in the Census of India 2011?**

Ans

✓ A. Bihar

✗ B. Rajasthan

✗ C. Madhya Pradesh

✗ D. Tamil Nadu

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Q.105 **Which of the following roles does the Small Industries Development Bank of India (SIDBI) perform in Indian economy?**

Ans

✗ A. Regulating foreign exchange transactions

✗ B. Supervising credit rating agencies

✗ C. Managing government pension funds

✓ D. Financing and promoting Micro, Small, and Medium Enterprises (MSMEs)

Q.106 **The Indian Airforce and Army jointly conducted the Vayu-Prahar Exercise in which of the following theatre commands?**

Ans

✗ A. Southern Theatre

✗ B. Western Theatre

✓ C. Eastern Theatre

✗ D. Northern Theatre

Q.107 **How has the advancement of technology impacted employment trends in India?**

Ans

✗ A. Technological advancement has had no significant impact on employment trends

✗ B. Technology has uniformly reduced employment opportunities across all sectors

✗ C. Only manual and low-skill jobs have been affected by technological advancements

✓ D. It has created new job opportunities, especially in the IT and service sectors, while also displacing traditional jobs

Q.108 **The elastic potential energy of a strained body is:**

Ans

✓ A. ½ × stress × strain × volume

✗ B. stress/strain

✗ C. stress × strain

✗ D. stress × strain / volume

Q.109 **What was the name of India's first rocket with a single piece 3D printed engine launched from Sriharikota in May 2024?**

Ans

✗ A. Pushpak

✗ B. Dhanush

✗ C. Dhara

✓ D. Agnibaan

Q.110 **Which of the following north-eastern states reported the highest literacy rate according to the Census of India 2011?**

Ans

✓ A. Mizoram

✗ B. 2. Assam

✗ C. Manipur

✗ D. 4. Meghalaya

Q.111 **Manohar Lal Khattar, who resigned in March 2024, was the Chief Minister of which of the following states of India?**

Ans

✗ A. Goa

✗ B. Jharkhand

✗ C. Chhattisgarh

✓ D. Haryana

Q.112 **In which year was Gibberellic acid discovered by Eiichi Kurosawa, which is known to stimulate seed germination and cell proliferation?**

Ans

✓ A. 1926

✗ B. 1975

✗ C. 1910

✗ D. 1950

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Q.113 **Who among the following was elected unopposed as the Deputy Speaker of the 8th Arunachal Pradesh Legislative Assembly?**

Ans

✗ A. Omak Nitik

✓ B. Kardo Nyigyor

✗ C. Sotai Kri

✗ D. Tapir Gao

Q.114 **QUEQIAO-2 signal relay satellite was launched by which country in 2024 to serve as the communication bridge for its future lunar probe missions?**

Ans

✗ A. North Korea

✗ B. South Korea

✓ C. China

✗ D. Japan

Q.115 **Which of the following mountain passes DOES NOT lie in Uttarakhand?**

Ans

✗ A. Lampiya Dhura

✗ B. Lwa Dhura

✗ C. Lipu Lekh

✓ D. Nathu La

Q.116 **In which of the following years was the first round table conference held?**

Ans

✓ A. 1930

✗ B. 1932

✗ C. 1933

✗ D. 1928

Q.117 **Who among the following was the first Secretary of Bethune School established at Calcutta (now Kolkata)?**

Ans

✓ A. Ishwar Chandra Vidyasagar

✗ B. Raja Ram Mohan Roy

✗ C. Debendranath Tagore

✗ D. Bal Gangadhar Tilak

Q.118 **Who wrote the book 'Women Freedom Fighters of India'?**

Ans

✓ A. Sanjay Yadav

✗ B. Shashi Tharoor

✗ C. EB Havell

✗ D. Aravind Adiga

Q.119 **How many indicators were used to calculate the recently published India's National MPI report?**

Ans

✗ A. 10

✗ B. 16

✗ C. 14

✓ D. 12

Q.120 **When was 'Victoria Memorial' built in India?**

Ans

✗ A. 1900

✗ B. 1857

✗ C. 1806

✓ D. 1906

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रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS

सी ई एन आर पी एफ - ०१/२०२४ - CEN RPF - 01/2024

Test Date	03/12/2024
Test Time	12:30 PM - 2:00 PM
Subject	RRB RPF SI 2024

*** Note**
Correct Answer will carry 1 mark per Question.
Incorrect Answer will carry 1/3 Negative mark per Question.

1. Options shown in green color with a tick icon are correct.

Section : **Arithmetic**

Q.1 How much sugar at ₹14.5 a kg should be added to 22 kg of tea at ₹2

Ans
- ✗ A. 42 kg
- ✓ B. 44 kg
- ✗ C. 46 kg
- ✗ D. 40 kg

Q.2 **Given that $59^{0.46} = x$, $59^{0.21} = y$ and $x^z = y^5$, then the value of z is close to:**

Ans
- ✗ A. 4.55
- ✗ B. 4.83
- ✓ C. 2.28
- ✗ D. 0.17

Q.3 **The marked price of an article is ₹492. The shopkeeper offers a discount of 39% on the purchase of the article. Thereby, he makes a profit of 22%. The cost price of the article is:**

Ans
- ✗ A. ₹220
- ✗ B. ₹247
- ✗ C. ₹259
- ✓ D. ₹246

Q.4 **Which of the following ratio is smallest?**

Ans
- ✗ A. 29 : 31
- ✓ B. 21 : 52
- ✗ C. 28 : 42
- ✗ D. 24 : 59

Q.5 **A bank offers 9.4% compound interest per annum calculated on a half-yearly basis. A customer deposits ₹8716 each on 1 January and 1 July of a year. At the end of the year, the amount he would have gained by way of interest is _____. [Give your answer correct to 2 decimal places.]**

Ans
- ✗ A. ₹1256.82
- ✗ B. ₹1228.2
- ✗ C. ₹1238.89
- ✓ D. ₹1248.2

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Q.6 If the volume of cube is 4096 m^3, then find the total surface area of cube in m^2.

Ans

✔ A. 1536

✘ B. 1514

✘ C. 1558

✘ D. 1548

Q.7 The expenditure of Sudha is 200% more than her savings. If her expenditure decreases by 6% and savings increase by 26%, then by what percent does her income increase?

Ans

✘ A. 0.07

✔ B. 0.02

✘ C. 0.05

✘ D. 0.06

Q.8 Find the value of $50^{-3} \div 50^{15} \times 50^{-18}$

Ans

✘ A. 1. 50^{-37}

✘ B. 2. 50^{-27}

✘ C. 3. 50^{-30}

✔ D. 4. 50^{-36}

Q.9 During sale, Raghav bought a notebook marked for ₹28 at 25% discount and a pen marked for ₹75 at 16% discount. How much (in ₹) did he save due to sale?

Ans

✔ A. 19

✘ B. 21

✘ C. 18

✘ D. 17

Q.10 A dishonest vendor claims that he is selling goods at their cost price. But he is weighing 652 grams for 1000 grams. What is his profit percentage (rounded off to 2 decimal places)?

Ans

✘ A. 53.46

✔ B. 53.37

✘ C. 56.69

✘ D. 51.75

Q.11 Find the surface area of a sphere whose diameter is equal to 92 cm.

Ans

✘ A. 1. 9073 cm^2

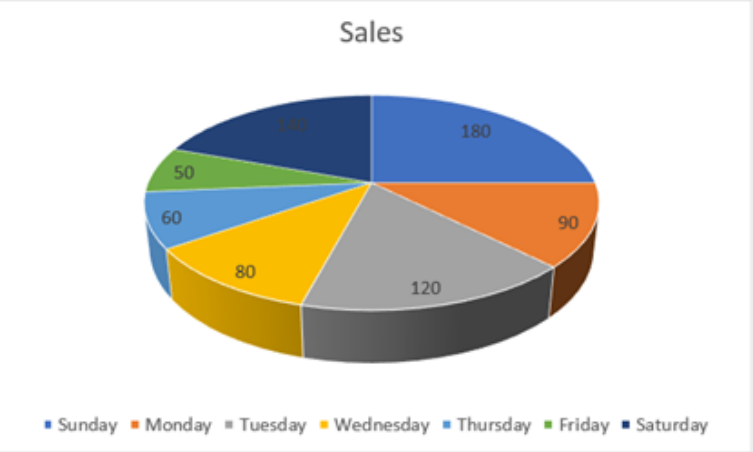
✘ B. 2. 8074 cm^2

✘ C. 3. 9329 cm^2

✔ D. 4. 8464 cm^2

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Q.12 **The pie-chart shows the sales of an item on different days of a week. Study the given pie-chart and answer the question that follows.**



The angle made at the centre by the sales on Wednesday is (in degrees):

Ans

✔ A. 40

✘ B. 50

✘ C. 30

✘ D. 60

Q.13 **Find the simple interest (in ₹) on ₹2000 at 6.25% per annum rate of interest for the period from 11 February 2023 to 25 April 2023**

Ans

✘ A. 26

✔ B. 25

✘ C. 24

✘ D. 23

Q.14

Find the value of $30^{-5} \div 30^{17} \times 30^{-16}$

Ans

✔ A. 1. 30^{-38}

✘ B. 2. 30^{-46}

✘ C. 3. 30^{-44}

✘ D. 4. 30^{-48}

Q.15 **Two trains of equal length are running on parallel lines in the same direction at speeds of 76 km/h and 67 km/h. The faster train passes the slower train in 56 seconds. The length of each train is:**

Ans

✘ A. 80 meters

✘ B. 74 meters

✘ C. 79 meters

✔ D. 70 meters

Q.16 **The average of 7 numbers is 43. If each number is decreased by 7, what will the new average be?**

Ans

✘ A. 7

✘ B. 29

✘ C. 43

✔ D. 36

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Q.17 Isha and Anshu together invested ₹49700 in a business. At the end of the year, out of a total profit of ₹8800, Isha's share was ₹2200. What was the investment of Anshu?

Ans

✔ A. ₹37275

✘ B. ₹37025

✘ C. ₹36760

✘ D. ₹37400

Q.18 What will be the remainder when 111^{2024} is divided by 112?

Ans

✘ A. 4

✔ B. 1

✘ C. 2

✘ D. 3

Q.19 The selling price of 50 books is equal to the cost price of 21 books. Find the loss or gain percentage.

Ans

✘ A. $\frac{100}{29}\%\ gain$

✔ B. 58 % loss

✘ C. $\frac{100}{29}\%\ loss$

✘ D. 58 % gain

Q.20 The smallest natural number which is divisible by 12, 8, 75 and 15 is:

Ans

✘ A. 610

✘ B. 562

✘ C. 690

✔ D. 600

Q.21 Ravi has 1458 litres of a mixture of milk and water. The ratio of milk to water in this mixture is 8 : 1. How much water (in litres) should Ravi add into the mixture so that the ratio of milk and water becomes 6 : 5?

Ans

✘ A. 900

✘ B. 909

✔ C. 918

✘ D. 927

Q.22 The average of eight numbers is 19. The average of five of these numbers is 20. The average of the remaining three numbers is

Ans

✘ A. 18.33

✔ B. 17.33

✘ C. 16.33

✘ D. 19.33

Q.23 Raghu scored 34, 43, 21, and 28 marks in four consecutive slip tests conducted in his school. How much should he score in the fifth slip test in order to have an average score of 30 marks?

Ans

✘ A. 22

✘ B. 20

✘ C. 14

✔ D. 24

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Q.24 **Find the least value of 'x' so that the 8-digit number 85264x16 is divisible by 8.**

Ans

✗ A. 1

✗ B. 3

✓ C. 2

✗ D. 5

Q.25 If $19 \times 8 \times 940 \div \sqrt{2209} = y + 557$, then find the value of y.

Ans

✗ A. 2481

✗ B. 2488

✗ C. 2479

✓ D. 2483

Q.26 **The ratio of numbers of girls and boys participating in sports of a school is 1 : 5. If the number of girls is 245, determine the number of boys participating in the sports.**

Ans

✗ A. 1200

✗ B. 1255

✓ C. 1225

✗ D. 1245

Q.27 **A 185 m long train crosses a man walking at a speed of 9.9 km/h in the opposite direction in 6 seconds. What is the speed (in km/h) of the train?**

Ans

✗ A. 106.2

✗ B. 97.6

✓ C. 101.09

✗ D. 104.2

Q.28 **A number when increased by 50 %', gives 3960. The number is:**

Ans

✓ A. 2640

✗ B. 5280

✗ C. 7920

✗ D. 1320

Q.29 $\frac{2}{8}+\frac{3}{8}+\frac{3}{16}+\frac{4}{8}-4=$

Ans

✗ A. $-\frac{44}{16}$

✓ B. $-\frac{43}{16}$

✗ C. $-\frac{50}{16}$

✗ D. $-\frac{33}{16}$

Q.30 **My kid brother is playing with a kite whose area is 15 sq cm and the sum of its diagonals is 11 cm. Find its diagonals in centimetres.**

Ans

✓ A. 6, 5

✗ B. 7, 4

✗ C. 5.25, 5.75

✗ D. 5.5, 5.5

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Q.31 **Anmol completes his journey in 16 hours. He covers half the distance at 72 km/h and the rest at 56 km/h. What is the length of the journey (in Km)?**

Ans

✗ A. 1013

✓ B. 1008

✗ C. 1000

✗ D. 999

Q.32 **Two trains of equal length are running on parallel lines in the same direction at speeds of 101 km/h and 71 km/h. The faster train passes the slower train in 18 seconds. The length of each train is:**

Ans

✗ A. 88 meters

✗ B. 72 meters

✗ C. 83 meters

✓ D. 75 meters

Q.33 **The smallest 1-digit number to be added to the 6-digit number 874146 so that it is completely divisible by 11 is:**

Ans

✓ A. 2

✗ B. 5

✗ C. 1

✗ D. 3

Q.34 **The smallest 1-digit number to be added to the 6-digit number 806039 so that it is completely divisible by 11 is:**

Ans

✗ A. 3

✗ B. 4

✓ C. 8

✗ D. 6

Q.35 **Nidhi invested a sum of ₹9600 at 15% per annum compound interest, componded annually. If she received an amount of ₹12696 after n years, the value of n is:**

Ans

✗ A. 1

✗ B. 3

✓ C. 2

✗ D. 2.5

Section : **General Intelligence and Reasoning**

Q.36 **Each of P, Q, R, S, T, U and V, has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. R has an exam on Thursday. Exactly 4 people have their exam between U and Q, neither of whom has an exam on Sunday. P has an exam immediately before S. V does not have an exam on Friday. U does not have an exam after S. How many people have an exam after Q?**

Ans

✓ A. 1

✗ B. 3

✗ C. 4

✗ D. 2

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Q.37 **Qars starts from Point A and drives 13 km towards north. He then takes a right turn, drives 11 km, turns right and drives 25 km. He then takes a right turn and drives 19 km. He takes a final right turn, drives 12 km and stops at Point P. How far (the shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90° turns only, unless specified.)**

Ans

✗ A. 9 km towards west

✗ B. 6 km towards west

✓ C. 8 km towards east

✗ D. 7 km towards east

Q.38 **Select the set in which the numbers are related in the same way as are the numbers of the following sets.**
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting /multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
(34, 108, 7)
(33, 121, 23)

Ans

✗ A. (12, 62, 23)

✗ B. (36, 135, 24)

✓ C. (48, 147, 4)

✗ D. (41, 131, 5)

Q.39 **Each of A, B, C, D, P, Q and R has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. No one has exam before D. Only three people have exam between D and Q. Only one person has exam between Q and R. B has exam on Wednesday. A has exam on one of the days after C but on one of the days before P. On which day of the week does A have exam?**

Ans

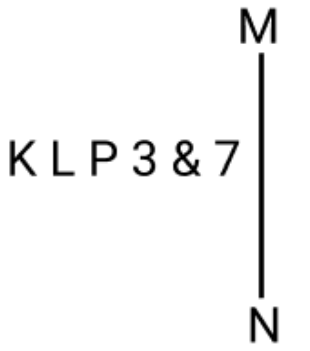
✗ A. Tuesday

✗ B. Monday

✗ C. Saturday

✓ D. Thursday

Q.40



Ans

✗ A. ⅂ ꝸ Ɛ K L P

✗ B. ⅂ ᑲ 3 ꝸ ⅃ ʞ

✓ C. ⅂ ꝸ Ɛ ꟼ ⅃ ʞ

✗ D. ∠ ꝸ Ɛ ꟼ ⅃ ʞ

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Q.41 Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which is the letter-cluster pair that DOES NOT belong to that group?

(Note: The odd man out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans

✗ A. CE-HJ

✗ B. OQ-TV

✗ C. GI-LN

✓ D. KM-PS

Q.42 In a certain code language, 'dreams come true' is coded as 'mp tb ko' and 'come on time' is coded as 'uk ko jb'. How is 'come' coded in the given language?

Ans

✓ A. ko

✗ B. tb

✗ C. uk

✗ D. jb

Q.43 In the following triads, each group of letters is related to the subsequent one following a certain logic. Select from the given options, the one that follows the same logic.

WAYS - WSAY - SWYA
FERN - FNER - NFRE

Ans

✓ A. GRAM - GMRA - MGAR

✗ B. BASE - ABSE - EASB

✗ C. BONE - BEON - OBNE

✗ D. SOLD - SLOD - DLOS

Q.44 This question is based on the following words.
BUS THE YOU DEN
In each of the words, each vowel is changed to the letter following it in the English alphabetical order and each consonant is changed to the letter preceding it in the English alphabetical order. In how many letter-clusters thus formed, will no vowel appear?

Ans

✗ A. 4

✓ B. 3

✗ C. 1

✗ D. 2

Q.45 This question is based on the five, three-digit numbers given below.
(Left) 672 745 462 378 417 (Right)
(Example- 697 – First digit = 6, second digit = 9 and third digit = 7)
NOTE - All operations to be done from left to right.
What will be the resultant if the second digit of the highest number is multiplied with the second digit of the lowest number?

Ans

✓ A. 28

✗ B. 25

✗ C. 29

✗ D. 27

Q.46 All 59 people are standing in a row facing north. Wang is 2nd from the left end while Chow is 1st from the right end. How many people are there between Wang and Chow?

Ans

✓ A. 56

✗ B. 58

✗ C. 66

✗ D. 43

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Q.47 **Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?**

(Note: The odd man out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans

✗ A. NJP

✓ B. HCI

✗ C. KGM

✗ D. EAG

Q.48 **Aman starts from Point A and drives 6 km towards West. He then takes a left turn, drives 3 km, turns right and drives 5 km. He then takes a right turn and drives 3 km. He takes a final right turn, drives 4 km and stops at Point B. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degree turns only unless specified.)**

Ans

✗ A. 5 km towards North

✗ B. 5 km towards West

✗ C. 7 km towards West

✓ D. 7 km towards East

Q.49 **B is the son of A. C is the wife of B. D is the daughter of C. E is the son of B. How is E related to A?**

Ans

✗ A. Brother

✗ B. Daughter

✓ C. Son's son

✗ D. Brother's son

Q.50 **A - B means 'A is the son of B',**
A $ B means 'A is the sister of B',
A @ B means 'A is the daughter of B' and
A * B means 'A is the father of B'.
Based on the above information, which of the following means that W is the sister's son of S?

Ans

✗ A. W @ E - A $ K * S

✓ B. W - E @ A * K $ S

✗ C. W * E - A $ K @ S

✗ D. W $ E * A - K @ S

Q.51 **Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number result(s) in the second number. Similarly, certain mathematical operation(s) on the second number result(s) in the third number and so on. Which of the given options follows the same set of operations as in the given sets?**

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

13 - 26 - 30 - 22; 17 - 34 - 38 - 30

Ans

✗ A. 21 - 42 - 56 - 38

✗ B. 25 - 50 - 68 - 60

✓ C. 9 - 18 - 22 - 14

✗ D. 20 - 60 - 64 - 46

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Q.52 Select the triad that follows the same pattern as the one followed by the two triads given below. Both triads follow the same pattern.

FA-HD-KN
ID-KG-NQ

Ans

✗ A. KG-NI-QS

✓ B. LG-NJ-QT

✗ C. LG-NJ-QS

✗ D. KG-NJ-QS

Q.53 I, J, K, L, M, N and W are sitting around a circular table facing the centre of the table. Only one person sits between L and J, when counted from the right of L. Only one person sits between J and N. Only one person sits between L and W. Only two people sit between M and N. Only one person sits between K and W. How many people sit between I and J, when counted from the right of I?

Ans

✗ A. One

✓ B. Two

✗ C. Three

✗ D. Four

Q.54 In a certain code language, 'FAIR' is coded as '3716' and 'ARID' is coded as '3169'. What is the code for 'D' in the given code language?

Ans

✗ A. 6

✗ B. 1

✓ C. 9

✗ D. 3

Q.55 If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 1675843, what will be difference between the highest and lowest digits in the new number thus formed?

Ans

✗ A. 8

✓ B. 6

✗ C. 4

✗ D. 2

Q.56 If 1 is added to each even digit and 2 is subtracted from each odd digit in the number 3256378, what will be the sum of the digits which are second from the left and second from the right in the new number thus formed?

Ans

✓ A. 8

✗ B. 5

✗ C. 7

✗ D. 4

Q.57 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.
Statements:
All tables are desks.
All desks are boards.
Some tables are chairs.
Conclusions:
(I): Some desks are chairs.
(II): Some boards are chairs.

Ans

✗ A. Only conclusion (II) follows.

✗ B. Neither conclusion (I) nor (II) follows.

✗ C. Only conclusion (I) follows.

✓ D. Both conclusions (I) and (II) follow.

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Q.58 In a certain code language, 'explore new opportunities' is written as 'ab tb mb' and 'opportunities await you' is coded as 'tb kb cb'. How is 'opportunities' coded in the given language?

Ans

✗ A. ab

✗ B. kb

✓ C. tb

✗ D. mb

Q.59 Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of ::?

: CJP :: NUA : %

Ans

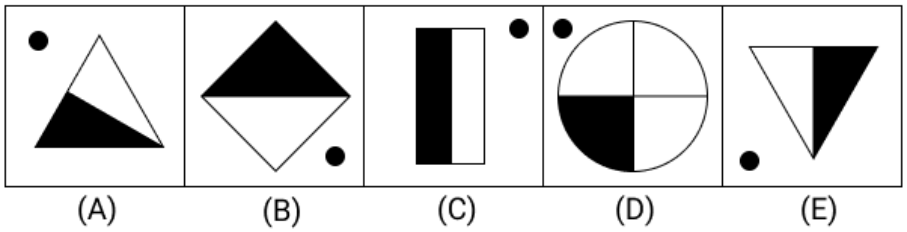
✗ A. # = ZFL; % = RYE

✓ B. # = YFL; % = RYE

✗ C. # = YFL; % = RYF

✗ D. # = YFL; % = SYE

Q.60 Four of the following five figures are alike in a certain way and thus form a group. Which figure DOES NOT belong to that group?



Ans

✗ A. C

✗ B. A

✗ C. B

✓ D. D

Q.61 Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?

YAC37, HJL46, QSU55, ZBD64, ?

Ans

✗ A. JYV73

✗ B. IYO73

✗ C. IKV73

✓ D. IKM73

Q.62 Refer to the following letter, number and symbol series and answer the question that follows. Counting to be done from left to right only.
(Left) © K % O $ 3 L © X # # 8 Z R © F 1 N 8 % Q N (Right)
If all the letters are dropped from the series, which of the following will be fifth from the left?

Ans

✗ A. #

✗ B. 8

✗ C. 3

✓ D. ©

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Q.63 **N, D, L, M, O, B and T have different heights. D is shorter than only two people. There are only three people who have heights between D and B. There are only two people who are taller than O but shorter than N. Only M is taller than N. T is taller than L. Who is the second shortest?**

Ans

✗ A. T

✓ B. L

✗ C. N

✗ D. M

Q.64 **Each of the digits in the number 6147385 is arranged in ascending order from left to right. The position(s) of how many digits will remain unchanged as compared to that in the original number?**

Ans

✗ A. Two

✗ B. None

✗ C. Three

✓ D. One

Q.65 **Select the numbers from among the given options that can replace the question marks (?) in the following series.**

81 84 90 99 111 ? 144 ?

Ans

✓ A. 126, 165

✗ B. 125, 171

✗ C. 127, 164

✗ D. 124, 170

Q.66 **G, H, I, J, M, N and O are sitting around a square table facing the centre of the table. Only G sits to the left of J. Only four people sit between G and H. Only O sits between N and I, and N is not an immediate neighbour of H.**
Who sits at the extreme right of the line?

Ans

✗ A. O

✗ B. G

✓ C. M

✗ D. I

Q.67 **Three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which is the letter-cluster pair that does NOT belong to that group?**
(Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)

Ans

✗ A. LQ - IM

✓ B. FK - CH

✗ C. OT - LP

✗ D. IN - FJ

Q.68 **Each vowel in the word FORMATS is changed to the letter immediately following it in the English alphabetical order and each consonant is changed to the letter immediately preceding it in the English alphabetical order. How many vowels are there in the group of letters thus formed?**

Ans

✗ A. 3

✗ B. 1

✗ C. 0

✓ D. 2

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Q.69 **What should come in place of the question mark (?) in the given series based on the English alphabetical order?**

QTV ORT MPR KNP ?

Ans

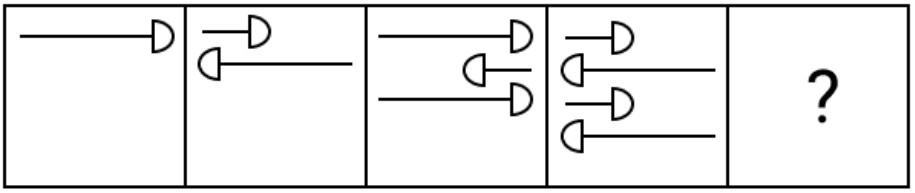
✗ A. IKM

✗ B. ILM

✗ C. IKN

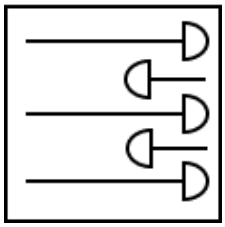
✓ D. ILN

Q.70

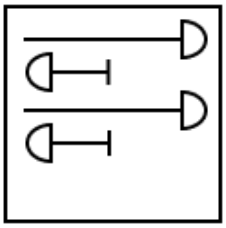


Ans

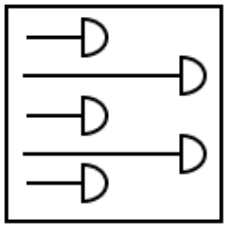
✓ A.



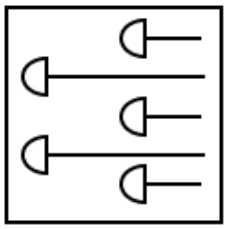
✗ B.



✗ C.



✗ D.



Section : **General Awareness**

Q.71 **Excessive production of which of the following hormones in the body causes the Cushing's syndrome, leading to weight gain and thinning of the skin?**

Ans

✗ A. Melatonin

✗ B. Vasopressin

✓ C. Cortisol

✗ D. Erythropoietin

Q.72 **In January 2015, the Government of India replaced the Planning Commission with:**

Ans

✗ A. NLCIL

✗ B. ICICI

✗ C. IDBI

✓ D. NITI Aayog

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Q.73 How many Indian crew were present on oil tanker 'Advantage Sweet' which was seized by Iranian authorities in April 2023 and released in October 2023?

Ans
- ✗ A. 20
- ✗ B. 26
- ✗ C. 16
- ✓ D. 23

Q.74 Jishnu Dev Varma, who was appointed as Governor of Telangana in July 2024, was the Former Deputy Chief Minister of which of the following states of India?

Ans
- ✓ A. Tripura
- ✗ B. Kerala
- ✗ C. Madhya Pradesh
- ✗ D. Mizoram

Q.75 Which edition of the World Future Energy Summit was held in Abu Dhabi in April 2024?

Ans
- ✓ A. 1. 16th
- ✗ B. 2. 12th
- ✗ C. 3. 14th
- ✗ D. 4. 20th

Q.76 What was India's rank in the Corruption Perceptions Index (CPI) for 2023?

Ans
- ✗ A. 111
- ✗ B. 83
- ✗ C. 121
- ✓ D. 93

Q.77 The Mumbai High Field (previously Bombay High Field) discovered by the Russian and Indian team from the seismic exploration vessel Academic Arkhangelsky in February 1974, commenced production in which year?

Ans
- ✗ A. 1975
- ✗ B. 1981
- ✓ C. 1976
- ✗ D. 1978

Q.78 In which of the following years was GATT established?

Ans
- ✗ A. 1947
- ✓ B. 1948
- ✗ C. 1946
- ✗ D. 1949

Q.79 Which of the following statements is correct regarding the Andaman and Nicobar Islands?

Ans
- ✗ A. The Andaman and Nicobar Islands lie far from the equator and experience minimal rainfall.
- ✗ B. The Andaman and Nicobar Islands have a temperate climate with sparse forest cover.
- ✗ C. The Andaman and Nicobar Islands are entirely made up of coral formations.
- ✓ D. The Andaman and Nicobar Islands are strategically important and have great diversity in flora and fauna.

Q.80 The Indian Navy's trilateral exercise known as 'IMT TRILAT' was held jointly with:

Ans
- ✓ A. Mozambique and Tanzania
- ✗ B. Egypt and Zimbabwe
- ✗ C. Nigeria and Uganda
- ✗ D. Sudan and Ethiopia

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Q.81 **Diazonium salt is formed by treating primary amine with which Brønsted acid?**

Ans

✔ A. Nitrous acid

✘ B. Phosphorous acid

✘ C. Sulphurous acid

✘ D. Chlorous acid

Q.82 **Name the viral infection that is also known as 'Shingles' and causes painful rashes or blisters on the skin.**

Ans

✘ A. Herpes Cytomegalo

✘ B. Herpes Simplex

✔ C. Herpes Zoster

✘ D. Herpes Epstein-Barr

Q.83 **In which of the following years did Mamata Banerjee found All India Trinamool Congress?**

Ans

✘ A. 2001

✘ B. 1995

✘ C. 2003

✔ D. 1998

Q.84 **In which of the following cities of India was the three-day national horticultural fair-2024 of the Indian Institute of Horticultural Research (IIHR) on the theme 'Nextgen technology led horticulture for sustainable development' organised in March 2024?**

Ans

✔ A. Bengaluru

✘ B. Hyderabad

✘ C. Panaji

✘ D. Shillong

Q.85 **Reserpine, an indole alkaloid drug used to reduce high blood pressure, is obtained from_____.**

Ans

✘ A. papaver somniferum

✘ B. cinchona officinarum

✔ C. rauvolfia serpentina

✘ D. digitalis purpurea

Q.86 **The _____ has appellate jurisdiction on all subordinate courts in the district.**

Ans

✘ A. Prime Minister of India

✘ B. President of India

✘ C. Vice President of India

✔ D. District Court

Q.87 **To which Gharana did the renowned singer Girija Devi, known for her 'Thumri' renditions, belong?**

Ans

✘ A. Jaipur Gharana

✘ B. Bhendi Bazaar Gharana

✘ C. Indore Gharana

✔ D. Benaras Gharana

Q.88 **Which edition of the Khelo India Para Games (KIPG) 2023 was held at New Delhi in December 2023?**

Ans

✘ A. Second

✘ B. Sixth

✔ C. Inaugural

✘ D. Fifth

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Q.89 **Researchers at IIT Bombay developed an instrument named GolDN for mechanically recycling waste plastic polymers through _____.**

Ans

✗ A. pyrolysis

✗ B. shredding

✗ C. compression

✓ D. melt mixing

Q.90 **Who among the following was appointed as the new Director General of the Geological Survey of India (GSI) in June 2024?**

Ans

✓ A. Asit Saha

✗ B. Sanjay Behari

✗ C. L Murugan

✗ D. Virendra Kumar

Q.91 **Who among the following had the shortest tenure as the President of India?**

Ans

✗ A. Jawaharlal Nehru

✗ B. Lal Bahadur Shastri

✓ C. Zakir Husain

✗ D. Rajendra Prasad

Q.92 **Which of the following falls in an area of low rainfall?**

Ans

✗ A. Bihar

✓ B. Rajasthan

✗ C. Meghalaya

✗ D. Tamil Nadu

Q.93 **Which of the following states have a higher percentage of multi-dimensionally poor?**

Ans

✗ A. Madhya Pradesh

✓ B. Bihar

✗ C. Jharkhand

✗ D. Uttar Pradesh

Q.94 **Dinesh K Tripathi became the Chief of _____ in January 2024.**

Ans

✗ A. Armed Forces

✗ B. Coast Guard

✗ C. Air Force

✓ D. Naval Staff

Q.95 **A saccharimeter is a type of _____.**

Ans

✗ A. pressure gauge

✗ B. diffractometer

✓ C. polarimeter

✗ D. interferometer

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Q.96 **Which of the following statements about the cardinal features of the political system in India are correct?**

1. It is a democratic republic.
2. It has a Parliamentary form of government.
3. The Supreme Power draws its power from the people of India.
4. It provides for a unified authority.

Ans
- ✗ A. Only 3 and 4
- ✓ B. Only 1, 2 and 3
- ✗ C. 1, 2, 3 and 4
- ✗ D. Only 1 and 2

Q.97 **According to the Census 2011, which of the following union territories has the highest population growth?**

Ans
- ✗ A. Lakshadweep
- ✗ B. Puducherry
- ✗ C. Delhi
- ✓ D. Daman and Diu

Q.98 **Bindusara ruled between which of the following periods?**

Ans
- ✗ A. 293 B.C.E. to 271 B.C.E.
- ✓ B. 297 B.C.E. to 273 B.C.E.
- ✗ C. 299 B.C.E. to 275 B.C.E.
- ✗ D. 295 B.C.E. to 270 B.C.E.

Q.99 **Who among the following was associated with 'Ulgulan movement'?**

Ans
- ✗ A. Tirot Sing
- ✓ B. Birsa Munda
- ✗ C. Tilka Manjhi
- ✗ D. Budhu Bhagat

Q.100 **Which of the following pairs (seasons and months, according to the Indian Calendar) is INCORRECT?**

Ans
- ✗ A. Varsha : Sravana-Bhadra
- ✓ B. Hemanta : Magha-Phalguna
- ✗ C. Vasanta : Chaitra-Vaisakha
- ✗ D. Sharada : Asvina-Kartika

Q.101 **In which year did the Government of India launch the Smart Cities Mission?**

Ans
- ✗ A. 2018
- ✗ B. 2016
- ✗ C. 2017
- ✓ D. 2015

Q.102 **Article 19(1)(a) of the Indian Constitution refers to _____.**

Ans
- ✗ A. right to equality
- ✓ B. freedom of speech and expression
- ✗ C. cultural educational rights
- ✗ D. right against exploitation

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Q.103 **Pallavi, Anupallavi and Mukthayi-Svara, collectively known as Purvanga, belong to which Carnatic music genre?**

Ans

✗ A. Gitam

✓ B. Varnam

✗ C. Suladi

✗ D. Javali

Q.104 **Which of the following is a Foreign Bank?**

Ans

✓ A. BNP Paribas

✗ B. Canara Bank

✗ C. HDFC Bank

✗ D. Axis Bank

Q.105 **Which of the following constitutional bodies is responsible for ensuring Free and Fair Elections?**

Ans

✓ A. Election Commission of India

✗ B. Parliament of India

✗ C. Supreme Court of India

✗ D. President of India

Q.106 **Which of the following parts of the Indian Constitution deals with the Fundamental Duties?**

Ans

✗ A. Part V A

✗ B. Part VI A

✗ C. Part III A

✓ D. Part IV A

Q.107 **Asia's first pre-clinical network facility was inaugurated in which of the following Indian cities in July 2024?**

Ans

✗ A. Lucknow

✗ B. Chennai

✓ C. Faridabad

✗ D. Bhubaneswar

Q.108 **Match the following correctly.**

Set-I	Set-II
a. Naathmuni	1. Sanak Sampradaya
b. Shankaracharya	2. Sri Vaisnav Sampradaya
c. Raamanuj	3. Advait
d. Nimbark	4. Vishishtadvait

Ans

✗ A. a - 3, b - 4, c - 1, d - 2

✗ B. a - 3, b - 4, c - 2, d -1,

✓ C. a - 2, b - 3, c - 4, d - 1,

✗ D. a - 4, b - 3, c - 2, d - 1

Q.109 **Which of the following places was made the capital of the Rashtrakutas by Dantidurga?**

Ans

✗ A. Kannauj

✗ B. Kanchi

✗ C. Pataliputra

✓ D. Manyakheta

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Q.110 What is the primary goal of fiscal consolidation?

Ans

✔ A. Reducing Government debt

✘ B. Stimulating economic growth

✘ C. Increasing consumer expenditure

✘ D. Reducing inflation

Q.111 Who is author of the book 'Rays and Ways of Indian Culture'?

Ans

✘ A. Romila Thapar

✘ B. Gayatri Sinha

✔ C. DP Dubey

✘ D. Jhumpa Lahiri

Q.112 The members of the constituent assembly were elected by _____.

Ans

✘ A. the British government

✘ B. universal franchise

✔ C. provincial legislatures

✘ D. the eminent leaders of congress party

Q.113 Indian para-athlete Sumit Antil won a gold medal in which event at the Paris 2024 Paralympic Games?

Ans

✘ A. Men's Shot Put

✔ B. Men's Javelin Throw

✘ C. Men's Club Throw

✘ D. Men's High Jump

Q.114 Which of the following indigenous tribes celebrates the Mopin festival?

Ans

✘ A. Bhil tribe

✘ B. Bhagalia tribe

✔ C. Galo tribe

✘ D. Pawra

Q.115 As per the Census 2011, which of the following union territories has the highest literacy rate?

Ans

✔ A. Daman and Diu

✘ B. Chandigarh

✘ C. Delhi

✘ D. Puducherry

Q.116 The angle between the vector A = 3i + 6j − 2k and B = 4i − j + 3k is:

Ans

✔ A. 90°

✘ B. 30°

✘ C. 45°

✘ D. 60°

Q.117 Who among the following founded Gurjara-Pratihara dynasty after winning Kannauj in the tripartite struggle?

Ans

✘ A. Rampal

✔ B. Nagabhata I

✘ C. Vatsaraja

✘ D. Mihira Bhoja

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Q.118 Which of the following is NOT a Poverty Estimation Committee?

Ans

✗ A. Alagh Committee

✓ B. Kothari Committee

✗ C. Tendulkar Committee

✗ D. Lakdawala Committee

Q.119 Who among the following woman social reformers, who educated at home at Poona and published a book, 'Stripurushtulna'?

Ans

✓ A. Tarabai Shinde

✗ B. Fatima Sheikh

✗ C. Begum Rokeya Sakhawat Hossain

✗ D. Savitribai Phule

Q.120 Which of the following is a significant challenge faced by microfinance institutions in India?

Ans

✓ A. Regulatory changes impacting operational flexibility

✗ B. High repayment rates by borrowers

✗ C. An oversupply of funds from international donors

✗ D. Lack of interest from rural populations

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रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS

सी ई एन आर पी एफ - ०१/२०२४ - CEN RPF - 01/2024

Test Date	03/12/2024
Test Time	4:00 PM - 5:30 PM
Subject	RRB RPF SI 2024

*** Note**
Correct Answer will carry 1 mark per Question.
Incorrect Answer will carry 1/3 Negative mark per Question.

1. Options shown in green color with a tick icon are correct.

Section : **Arithmetic**

Q.1 **The areas of three adjacent faces of a solid cuboid are 127 cm^2, 32 cm^2 and 254 cm^2. What is the volume (in cm^3) of the cuboid?**

Ans
- ✗ A. 963
- ✗ B. 1163
- ✓ C. 1016
- ✗ D. 941

Q.2 By selling an article at $\frac{2}{5}$ of its actual selling price, Ramesh incurs a lo

Ans
- ✓ A. 53.3%
- ✗ B. 52.7%
- ✗ C. 54.7%
- ✗ D. 52.1%

Q.3 **A sum, when invested at 20% simple interest per annum, amounts to ₹2160 after 4 years. What is the simple interest (in ₹) on the same sum at the same rate in 2 year?**

Ans
- ✗ A. 240
- ✗ B. 1920
- ✗ C. 960
- ✓ D. 480

Q.4 **Four years ago, the average age of P, Q and R was 25 years. If three years ago, the average age of P and Q was 20 years, find the present age of R.**

Ans
- ✗ A. 38 years
- ✓ B. 41 years
- ✗ C. 35 years
- ✗ D. 34 years

Q.5 **Latika and Himani together invested ₹47800 in a business. At the end of the year, out of a total profit of ₹7500, Latika's share was ₹2700. What was the investment of Himani?**

Ans
- ✓ A. ₹30592
- ✗ B. ₹28855
- ✗ C. ₹32405
- ✗ D. ₹31305

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Q.6 **LCM and HCF of two numbers are 192 and 32 respectively. If one of the numbers is 64, then find the other number.**

Ans

✗ A. 99

✗ B. 93

✓ C. 96

✗ D. 97

Q.7 **If 25% of a number is added to 72, then the result is the same number. 60% of the same number is:**

Ans

✗ A. 77.6

✓ B. 57.6

✗ C. 27.6

✗ D. 87.6

Q.8 **The average price of three items of furniture is Rs 16020. If their prices are in the ratio 3:5:7, the price of the costliest item (in Rs) is**

Ans

✗ A. 3204

✓ B. 22428

✗ C. 7476

✗ D. 5340

Q.9 **A train runs at a speed of 148 kmph to cover a distance of 296 km and then at a speed of 98 kmph to cover a distance of 294 km. Find the average speed of the train for the entire distance.**

Ans

✓ A. 118 kmph

✗ B. 131 kmph

✗ C. 114 kmph

✗ D. 132 kmph

Q.10 **If at same rate of interest, in 2 years, the simple interest is ₹60 and compound interest is ₹64, then what is the principal (in ₹)?**

Ans

✗ A. 220

✗ B. 229

✗ C. 218

✓ D. 225

Q.11 **A train runs at a speed of 137 kmph to cover a distance of 411 km and then at a speed of 109 kmph to cover a distance of 327 km. Find the average speed of the train for the entire distance.**

Ans

✓ A. 123 kmph

✗ B. 115 kmph

✗ C. 125 kmph

✗ D. 87 kmph

Q.12 **Find the least of value of 'x' so that the number 9052743x2 is divisible by 8.**

Ans

✗ A. 8

✗ B. 3

✓ C. 9

✗ D. 7

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Q.13 **The smallest natural number which is divisible by 15, 63, 21 and 70 is:**

Ans

✗ A. 531

✗ B. 632

✓ C. 630

✗ D. 587

Q.14 How much water should be mixed in 40 litres of milk worth ₹6.90 pe

Ans

✗ A. 25 litres

✓ B. 20 litres

✗ C. 10 litres

✗ D. 15 litres

Q.15 $\frac{5}{5}+\frac{5}{5}+\frac{4}{10}+\frac{1}{5}-2=$

Ans

✗ A. $-\frac{1}{10}$

✗ B. $\frac{3}{10}$

✓ C. $\frac{6}{10}$

✗ D. $\frac{1}{10}$

Q.16 **Find the circumference (in m) of the largest circle that can be inscribed in a rectangle whose dimensions are given as 56 m and 154 m.**

$take\ \pi = \frac{22}{7}$

Ans

✗ A. 171

✗ B. 173

✓ C. 176

✗ D. 174

Q.17 **During sale, Raghav bought a notebook marked for ₹50 at 40% discount and a pen marked for ₹32 at 50% discount. How much (in ₹) did he save due to sale?**

Ans

✗ A. 38

✗ B. 39

✗ C. 33

✓ D. 36

Q.18 **Three partners invested in a business in the ratio 3:9:8. They invested their capitals for 10 months, 1 months and 4 months, respectively. What was the ratio of their profits?**

Ans

✗ A. 31:9:32

✗ B. 28:9:32

✓ C. 30:9:32

✗ D. 32:9:32

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Q.19 A man walks to a viewpoint and returns to the starting point by his car maintaining constant speed and thus takes a total time of 9 hours 30 minutes. He would have gained 7 hours by driving both ways. How long would it have taken for him to walk both ways with same walking speed?

Ans

✗ A. 16 hours 45 minutes

✗ B. 17 hours 30 minutes

✗ C. 15 hours 15 minutes

✓ D. 16 hours 15 minutes

Q.20 A bank offers 6.6% compound interest per annum calculated on a half-yearly basis. A customer deposits ₹4823 each on 1 January and 1 July of a year. At the end of the year, the amount he would have gained by way of interest is _____. [Give your answer correct to 2 decimal places.]

Ans

✓ A. ₹482.72

✗ B. ₹479.07

✗ C. ₹462.72

✗ D. ₹474.94

Q.21 The average of 7 numbers is 45. If each number is decreased by 5, what will the new average be?

Ans

✗ A. 45

✓ B. 40

✗ C. 35

✗ D. 7

Q.22 Evaluate 85^2

Ans

✗ A. 7245

✓ B. 7225

✗ C. 7235

✗ D. 7195

Q.23 The area of a square plot is 841 m^2. The length of each side of the plot (in m) is:

Ans

✗ A. 31

✓ B. 29

✗ C. 41

✗ D. 39

Q.24 If third proportional of 36 and 18 be x, then what is the value of x?

Ans

✗ A. 11

✗ B. 10

✓ C. 9

✗ D. 7

Q.25 $0.4\overline{2} + 0.\overline{42}$

Ans

✗ A. $\frac{834}{999}$

✓ B. $\frac{838}{990}$

✗ C. $\frac{838}{999}$

✗ D. $\frac{834}{990}$

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Q.26 $0.6\overline{41} + 0.\overline{23}$

Ans

✗ A. $\frac{173}{999}$

✗ B. $\frac{173}{199}$

✓ C. $\frac{173}{198}$

✗ D. $\frac{173}{99}$

Q.27 **David sold 172 chairs and had a gain equal to the selling price of 86 chairs. What is his profit percentage?**

Ans

✗ A. 110%

✗ B. 105%

✓ C. 100%

✗ D. 95%

Q.28 **A train runs at a speed of 81 kmph to cover a distance of 405 km and then at a speed of 88 kmph to cover a distance of 176 km. Find the average speed of the train for the entire distance.**

Ans

✓ A. 83 kmph

✗ B. 129 kmph

✗ C. 53 kmph

✗ D. 133 kmph

Q.29 **Find the circumference (in m) of the largest circle that can be inscribed in a rectangle whose dimensions are given as 250 m and 126 m.**

$take\ \pi = \frac{22}{7}$

Ans

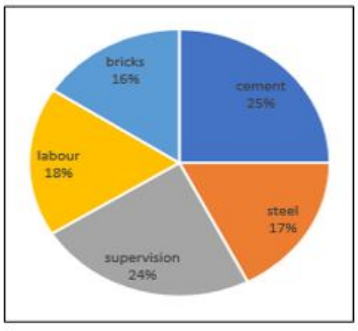
✗ A. 391

✗ B. 393

✗ C. 395

✓ D. 396

Q.30 The given pie chart shows the breakup of the cost of construction of an office.



If the total cost of construction is ₹9,00,000, by how much does the amount spent on cement exceed the amount spent on labour?

Ans

✓ A. ₹63,000

✗ B. ₹55,000

✗ C. ₹45,000

✗ D. ₹54,000

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Q.31 If $x = 2 + \sqrt{9}$ and $y = 2 - \sqrt{9}$ then the value of $x^2 + y^2$ is:

Ans
- ✗ A. 22
- ✗ B. 9
- ✗ C. 15
- ✓ D. 26

Q.32 **Lalit's average earning per month in the first three months of a year was ₹38360. In April, his earning was 50% more than the average earning in the first three months. If his average earning per month for the whole year is ₹55065, then what will be Lalit's average earning (in ₹) per month from May to December?**

Ans
- ✗ A. 61018
- ✓ B. 61020
- ✗ C. 61025
- ✗ D. 61015

Q.33 **LCM and HCF of two numbers are 150 and 5 respectively. If one of the numbers is 15, then find the other number.**

Ans
- ✗ A. 52
- ✗ B. 48
- ✗ C. 49
- ✓ D. 50

Q.34 **A shopkeeper marks an article at ₹x and offers a discount of 60% on it. He sells it for ₹444 after charging VAT of 25% on the discounted price. What is the value of ₹ x?**

Ans
- ✗ A. ₹1100
- ✗ B. ₹700
- ✗ C. ₹900
- ✓ D. ₹888

Q.35 **A number when increased by 50 %', gives 3870. The number is:**

Ans
- ✗ A. 5160
- ✗ B. 7740
- ✓ C. 2580
- ✗ D. 1290

Section : **General Intelligence and Reasoning**

Q.36 **A is the sister of B's daughter C. K is the mother of C, and L is the father of K. How is A related to L?**

Ans
- ✗ A. Daughter's son
- ✗ B. Son's son
- ✗ C. Son's daughter
- ✓ D. Daughter's daughter

Q.37 **If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 3617845, which of the following digits will be second from the left in the new number thus formed?**

Ans
- ✗ A. 2
- ✗ B. 6
- ✓ C. 4
- ✗ D. 8

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Q.38 **Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?**
(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans
- ✗ A. ZAY
- ✓ B. LNK
- ✗ C. BCA
- ✗ D. KLJ

Q.39 **Seven boxes, C, D, E, F, G, H and P, are kept one over the other but not necessarily in the same order. Only one box is kept below C. Only three boxes are kept between C and H. F is kept at one of the positions below C. Only P is kept between H and G. E is kept at one of the positions above H. How many boxes are kept between D and F?**

Ans
- ✗ A. Four
- ✓ B. One
- ✗ C. Two
- ✗ D. Three

Q.40 **Which of the following letter-clusters will replace the question mark (?) in the given series to make it logically complete?**

IXE 2 KSH −9 MNK −20 OIN −31 ?

Ans
- ✗ A. WQZ −66
- ✗ B. DQP −44
- ✓ C. QDQ −42
- ✗ D. YWZ −65

Q.41 **Rahul starts from Point A and drives 7 km towards East. He then takes a right turn, drives 2 km, turns right and drives 4 km. He then takes a right turn and drives 6 km. He takes a final left turn, drives 3 km and stops at Point B. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degree turns only unless specified.)**

Ans
- ✗ A. 11 km towards East
- ✗ B. 6 km towards North
- ✓ C. 4 km towards South
- ✗ D. 11 km towards North

Q.42 **In the following triads, each group of letters is related to the subsequent one following a certain logic. Select from the given options, the one that follows the same logic.**

DESK - EDSK - KEDS
ROAD - ORAD - DORA

Ans
- ✗ A. FROG - FORG - GORF
- ✓ B. PRAY - RPAY - YRPA
- ✗ C. VANS - AVNS - ANSV
- ✗ D. JAMS - AJMS - SAMJ

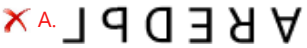
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Q.43



Ans

✗ A. 

✓ B. 

✗ C. 

✗ D. 

Q.44 **This question is based on the five, three-digit numbers given below.**

(Left) 157 643 351 267 872 (Right)

(Example- 697 – First digit = 6, second digit = 9 and third digit = 7)

NOTE: All operations to be done from left to right.

If all the numbers are arranged in descending order, the position(s) of how many numbers will remain unchanged?

Ans

✗ A. 1

✗ B. 2

✗ C. 4

✓ D. 3

Q.45 **Select the set in which the numbers are related in the same way as are the numbers of the following sets.**

(Note: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(10, 130, 13)
(11, 187, 17)

Ans

✓ A. (36, 792, 22)

✗ B. (39, 627, 16)

✗ C. (49, 542, 11)

✗ D. (3, 51, 16)

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Q.46 **Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.**
Statements:
All shirts are pants.
All pants are trousers.
Some pants are coats.
Conclusions:
(I): Some trousers are coats.
(II): Some shirts are coats.

Ans
✗ A. Neither conclusion (I) nor (II) follows.
✗ B. Both conclusions (I) and (II) follow.
✓ C. Only conclusion (I) follows.
✗ D. Only conclusion (II) follows.

Q.47 **What will come in place of the question mark (?) in the following equation, if '+' and '−' are interchanged and '×' and '÷' are interchanged?**

24 ÷ 4 + 10 × 5 − 3 = ?

Ans
✓ A. 97
✗ B. 95
✗ C. 93
✗ D. 91

Q.48 **In a certain code language, 'ROMS' is coded as '2613' and 'WORM' is coded as '8326'. What is the code for 'W' in the given code language?**

Ans
✓ A. 8
✗ B. 2
✗ C. 3
✗ D. 6

Q.49 **Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which pair DOES NOT belong to that group?**
(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster pair.)

Ans
✗ A. RM : PK
✗ B. MH : KF
✗ C. JE : HC
✓ D. PJ : MH

Q.50 **A, B, C, D, E, F and G are sitting around a circular table facing the centre. Only two people sit between A and D, when counted from the right of A. Only two people sit between D and G. Only three people sit between A and C. F sits to the immediate left of E. How many people sit between C and G, when counted from the left of G?**

Ans
✓ A. 1
✗ B. 3
✗ C. 4
✗ D. 2

Q.51 **G, H, I, J, K and L, each scored different marks. I scored the maximum marks. Only G scored less than K. L scored more than H but less than J.**
How many people among the six, scored more than H but less than J?

Ans
✗ A. Three
✗ B. Two
✗ C. Four
✓ D. One

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Q.52 **Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of :: ?**

: HJE :: OQL : %

Ans

✔ A. # = LNI, % = KMH

✘ B. # = PKO, % = NHU

✘ C. # = HGY, % = LHU

✘ D. # = MLI, % = KJK

Q.53 **Refer to the following number, symbol series and answer the question that follows. Counting to be done from left to right only.**

(Left) 7 $ % 4 & 8 2 @ 5 & 3 Ω 9 * 1 £ # 6 (Right)

If all the symbols are dropped from the series, which of the following will be fifth from the right?

Ans

✘ A. 9

✘ B. 3

✘ C. 2

✔ D. 5

Q.54 **Seven boxes U, V, W, X, P, Q and R are kept one over the other but not necessarily in the same order. Only two boxes are kept between P and U. Only X is kept above W. No box is kept below U. R is kept at some place below V but at some place above Q. Which box is kept third above Q?**

Ans

✘ A. X

✔ B. V

✘ C. R

✘ D. U

Q.55 **NHLO is related to SMQT in a certain way based on the English alphabetical order. In the same way, PJNQ is related to UOSV. To which of the following is RLPS related, following the same logic?**

Ans

✘ A. WQXU

✘ B. QWUX

✘ C. QWXU

✔ D. WQUX

Q.56 **Select the term from among the given options that can replace the question mark (?) in the following series.**

LDY 1 JGX -3 HJW 9 FMV -27 ?

Ans

✘ A. PVD 80

✔ B. DPU 81

✘ C. EDP 80

✘ D. UOD 81

Q.57 **If 'I' stands for '+' , 'J' stands for '×', 'K' stands for '÷', and 'L' stands for '−' what will come in place of the question mark '?' in the following equation?**
(16 I 9 L 13) I 7 J 5 L (22 K 2) I 4 J 9 = ?

Ans

✘ A. 96

✘ B. 60

✘ C. 84

✔ D. 72

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Q.58 **A @ B means 'A is the daughter of B',**
A * B means ' A is the father of B',
A - B means 'A is the son of B' and
A $ B means 'A is the sister of B'.
Based on the above information, which of the following means that H is the brother's daughter of D?

Ans
- ✔ A. H @ A - M * I $ D
- ✘ B. H * A @ M $ I - D
- ✘ C. H $ A * M - I @ D
- ✘ D. H @ A - M $ I * D

Q.59 **This question is based on the given words.**
WIG RUT HEN JOY
If in each of the words, each letter is changed to the next letter in the English alphabetical order, how many words thus formed will have no vowel?

Ans
- ✘ A. One
- ✘ B. Zero
- ✔ C. Two
- ✘ D. Three

Q.60 **D, E, F, G, H, I and T are sitting around a circular table facing the centre of the table. F sits third to the left of H. Only one person sits between H and T when counted from the left of T. Only two people sit between G and I when counted from the right of I. D is an immediate neighbour of G. Who sits third to the right of E?**

Ans
- ✘ A. D
- ✔ B. F
- ✘ C. I
- ✘ D. T

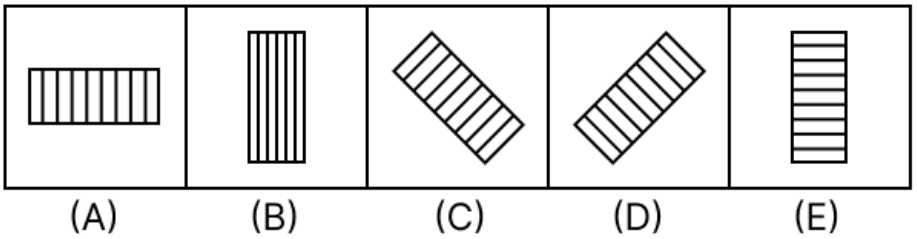
Q.61 **Refer to the following number and symbol series and answer the question that follows. Counting to be done from left to right only.**

(Left) 6 @ 8 $ 7 & 3 Ω 9 2 & % 4 # 1 * £ 5 (Right)

How many such symbols are there each of which is immediately preceded by a number and also immediately followed by another number?

Ans
- ✘ A. 6
- ✔ B. 5
- ✘ C. 7
- ✘ D. 4

Q.62 **Five figures have been given, out of which four are alike in some manner and one is different. Select the one that is different.**



Ans
- ✘ A. E
- ✘ B. C
- ✘ C. D
- ✔ D. B

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Q.63 All 29 people are standing in a row facing north. KLM is 8th from the right end, while PRQ is 12th from the left end. How many people are there between KLM and PRQ?

Ans

✗ A. 10

✗ B. 8

✓ C. 9

✗ D. 7

Q.64 Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number results in the second number. Similarly, certain mathematical operation(s) on the second number results in the third number and so on. Which of the given options follows the same set of operations as in the given sets? (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting /multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

8 - 10 - 14 - 7; 6 - 8 - 12 - 6

Ans

✗ A. 13 - 15 - 30 - 60

✗ B. 3 - 5 - 9 - 18

✓ C. 4 - 6 - 10 - 5

✗ D. 2 - 4 - 8 - 16

Q.65 In a certain code language, 'GIFT' is coded as '5173' and 'FLOW' is coded as '4612'. What is the code for 'F' in the given code language?

Ans

✓ A. 1

✗ B. 4

✗ C. 7

✗ D. 2

Q.66 FGH starts from Point A and drives 16 km towards south. He then takes a left turn, drives 12 km, turns left and drives 28 km. He then takes a left turn and drives 23 km. He takes a final left turn, drives 12 km and stops at Point P. How far (the shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90° turns only, unless specified.)

Ans

✓ A. 11 km towards east

✗ B. 6 km towards west

✗ C. 10 km towards west

✗ D. 9 km towards east

Q.67 Select the number from among the given options that can replace the question mark (?) in the following series.

143 170 234 359 ?

Ans

✗ A. 555

✓ B. 575

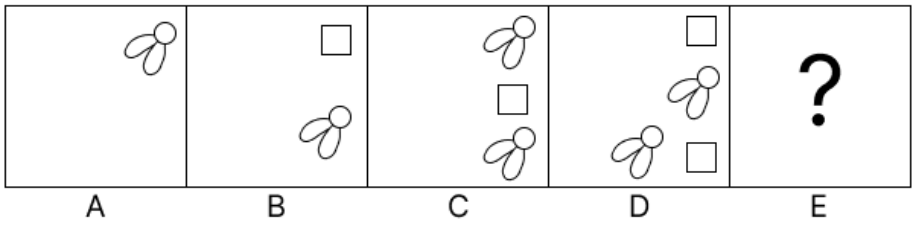
✗ C. 573

✗ D. 535

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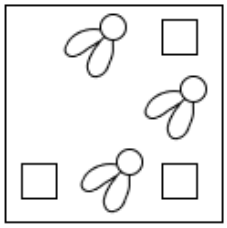
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Q.68

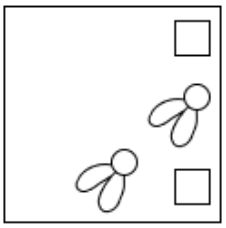


Ans

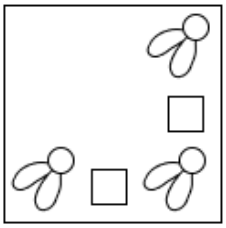
✗ A.



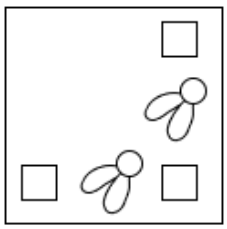
✗ B.



✓ C.



✗ D.



Q.69 **In a certain code language, 'stay always positive' is coded as 'tk mp bk' and 'always on time' is coded as 'lj tk mo'. How is 'always' coded in the given language?**

Ans

✗ A. bk

✗ B. lj

✓ C. tk

✗ D. mo

Q.70 **Three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which is the letter-cluster pair that does NOT belong to that group?**
(Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)

Ans

✗ A. FJ - MD

✗ B. IM - PG

✗ C. LP - SJ

✓ D. CG - JB

Section : **General Awareness**

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Q.71 **In eastern Bengal, Matua sect of social reformer, _____ worked among Chandala cultivators.**

Ans
- ✔ A. Haridas Thakur
- ✘ B. Guru Ghasidas
- ✘ C. Akshay Kumar Datta
- ✘ D. Ishwar Chandra Vidyasagar

Q.72 **Which of the following is the highest law officer in the Government of India?**

Ans
- ✘ A. Judge of High court
- ✘ B. Judge of the Supreme Court
- ✔ C. Attorney General of India
- ✘ D. Chief Justice of India

Q.73 **In _____, tales from Mahabharata are sung as a ballad and one or two episodes are chosen for the night's performance in Chhattisgarh.**

Ans
- ✘ A. Chhakri
- ✘ B. Sohar
- ✘ C. Alha
- ✔ D. Pandavani

Q.74 **Through which of the following platforms does the New India Literacy Programme (NILP) encourage learners to access content in local languages across the country?**

Ans
- ✔ A. DIKSHA platform
- ✘ B. Google Classroom
- ✘ C. DISHA portal
- ✘ D. PM Abhyas portal

Q.75 **Which of the following is against globalisation?**

Ans
- ✔ A. Globalisation increases economic disparities.
- ✘ B. Globalisation increases access to global markets.
- ✘ C. Globalisation increases the diversification of products.
- ✘ D. Globalisation increases the use of advanced technology.

Q.76 **In March 2024, Sports Minister Anurag Thakur announced the establishment of how many National Centres of Excellence (NCOE) exclusively for women on the occasion of International Women's Day?**

Ans
- ✘ A. Three
- ✘ B. Four
- ✔ C. Two
- ✘ D. Five

Q.77 **Which of the following Articles of the Indian Constitution guarantees protection against arrest and detention in certain cases?**

Ans
- ✔ A. Article 22
- ✘ B. Article 20
- ✘ C. Article 21
- ✘ D. Article 23

Q.78 **Rauwolfia serpentina is a:**

Ans
- ✘ A. poisonous snake
- ✔ B. medicinal plant
- ✘ C. helminth parasite
- ✘ D. contributing organism of AIDS

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Q.79 **Where was the joint military exercise MAITREE 2024 conducted between the Indian Army and the Royal Thailand Army?**

Ans

✗ A. Chiang Mai, Thailand

✗ B. Phuket, Thailand

✓ C. Tak Province, Thailand

✗ D. Bangkok, Thailand

Q.80 **Which of the following schemes hasShishu, Kishore and Tarun sub-schemes?**

Ans

✗ A. Gold Monetisation Scheme

✗ B. DeenDayal Upadhyaya Grameen Kaushalya Yojana

✓ C. Mudra Yojana

✗ D. Start-up India

Q.81 **India's first tilapia parvovirus contamination was reported in Tamil Nadu in October 2023. The virus primarily infected _____.**

Ans

✗ A. bats

✓ B. fishes

✗ C. monkeys

✗ D. goats

Q.82 **Which initiative of the Government of India aims to integrate various sub-schemes related to safety, security, and empowerment of women under an umbrella scheme for greater efficiency and effectiveness in India?**

Ans

✗ A. Mission Vatsalya

✗ B. Mission Yukti

✗ C. Mission Nirbhaya

✓ D. Mission Shakti

Q.83 **Which of the following union territories reported the highest literacy rate according to the Census of India 2011?**

Ans

✗ A. Chandigarh

✗ B. Daman and Diu

✓ C. Lakshadweep

✗ D. Puducherry

Q.84 **Which of the following authorites in India have the power to terminate the citizenship of an individual under certain circumstances?**

Ans

✗ A. Supreme Court

✓ B. Union Government

✗ C. Delhi Government

✗ D. Any State Government

Q.85 **According to the DSCI-SEQRITE India Cyber Threat Report, 2023, which of the following industrial sectors has/have detected the highest number of malware attack spectrums?**

Ans

✓ A. Automobiles

✗ B. Logictics

✗ C. Education

✗ D. IT Industries

Q.86 **Who among the following holds office during the pleasure of the President?**

Ans

✗ A. Comptroller and Auditor General of India

✗ B. Speaker of the Lok Sabha

✗ C. Chairman of the Union Public Service Commission

✓ D. Attorney General of India

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Q.87 **Where is the Lalitagiri Buddhist site located?**

Ans

✗ A. Haryana

✗ B. Rajasthan

✗ C. Bihar

✓ D. Odisha

Q.88 **What is the name of the Prime Minister's new rooftop solar power scheme launched by Shri Narendra Modi on 15 February 2024?**

Ans

✗ A. Pradhan Mantri Ujala Yojana

✗ B. Pradhan Mantri Gram Ujala Yojana

✗ C. Pradhan Mantri Surya Kiran Yojana

✓ D. PM Surya Ghar: Muft Bijli Yojana

Q.89 **Which Carnatic vocalist was popularly known as the 'Nightingale of India'?**

Ans

✗ A. DK Pattammal

✗ B. Lalgudi Jayaraman

✓ C. MS Subbulakshmi

✗ D. Balamuralikrishna

Q.90 **Which of the following did the conventional method specifically define as 'quasi-money'?**

Ans

✗ A. All forms of money

✗ B. Narrow money

✓ C. Financial instruments that are not media of exchange but are substitutes

✗ D. Media of exchange considered as money

Q.91 **Spain joined the International Solar Alliance (ISA) as which member in May 2024?**

Ans

✗ A. 1. 97th

✓ B. 2. 99th

✗ C. 3. 100th

✗ D. 4. 94th

Q.92 **Which Article of the Indian constitution deals with the advisory jurisdiction of the Supreme Court?**

Ans

✗ A. Article 145

✗ B. Article 142

✗ C. Article 148

✓ D. Article 143

Q.93 **Which of the following factors mainly contributes to the difference of temperature between the coastal and interior areas?**

Ans

✗ A. Ocean currents

✗ B. Altitude

✓ C. Distance from the sea (continentality)

✗ D. Latitude

Q.94 **Who among the following was NOT associated with 'Servants of India Society'?**

Ans

✓ A. Bal Gangadhar Tilak

✗ B. Natesh Appaji Dravid

✗ C. Anant Vinayak Patwardhan

✗ D. Gopal Krishna Deodhar

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Q.95 **Who among the following kings of the Gupta dynasty married the Lichchhavi princess (Kumari devi)?**

Ans

✗ A. Samudra Gupta

✗ B. Chandra Gupta II

✓ C. Chandra Gupta I

✗ D. Kumara Gupta

Q.96 **Which of the following was NOT a part of Shailendra Empire, founded in the South East Asia, in the 8th Century CE?**

Ans

✗ A. Sumatra

✗ B. Java

✓ C. Srilanka

✗ D. Malaya

Q.97 **Where did the Judo Federation of India conduct the Senior National Judo Championships 2023-24 in the month of October 2023?**

Ans

✗ A. Bhopal

✗ B. New Delhi

✓ C. Jaipur

✗ D. Patna

Q.98 **At which of the following sessions of the Congress did it get split into the Moderates and the Extremists?**

Ans

✗ A. Calcutta

✓ B. Surat

✗ C. Allahabad

✗ D. Lahore

Q.99 **Which food safety management system published in 2005 provides a framework for organisations to manage food safety?**

Ans

✓ A. ISO 22000

✗ B. ISO 17025

✗ C. ISO 14000

✗ D. ISO 9000

Q.100 **Which of the following Gurjara-Parthihara kings was highly praised by the Arabian scholar Sulaiman for keeping his empire safe from robbers?**

Ans

✗ A. Ramabhadra

✓ B. Mihira Bhoja

✗ C. Vatsaraja

✗ D. Nagabhata II

Q.101 **Where did Prime Minister Narendra Modi inaugurate the opening ceremony of the Khelo India Youth Games 2023 in January 2024?**

Ans

✗ A. Trichy

✗ B. Madurai

✗ C. Coimbatore

✓ D. Chennai

Q.102 **In which of the following countries is the policy of dual citizenship accepted?**

Ans

✗ A. India

✗ B. China

✗ C. UK

✓ D. US

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Q.103 **Equity in agriculture called for _____, which primarily refers to change in the ownership of landholdings.**

Ans

✗ A. Zamindari system

✗ B. land consolidation

✗ C. land grab

✓ D. land reform

Q.104 **Match the (List-I cities) with (List-II temperature) characteristics: and chose your answer the code below.**

(List-I - Cities) (List-II - Temperature)
(A) Pahalgam I. 50°C in summer, 15°C at night
(B) Drass II. Temperature can be as low as minus 45°C
(C) Thar Desert III. Around 20°C in summer
(D) Thiruvananthapuram IV. Temperature is 22°C

Ans

✓ A. (a) iii (b) ii (c) i (d) IV

✗ B. (a) iv (b) iii (c) ii (d) i

✗ C. (a) ii (b) iii (c) i (d) iv

✗ D. (a) iii (b) i (c) ii (d) iii

Q.105 **As part of military-to-military exchange programmes, a contingent of Indian Special Forces troops engaged in a bilateral joint training exercise GARUDA SHAKTI with which of the following countries in Nov 2022?**

Ans

✗ A. Malaysia

✗ B. Taiwan

✓ C. Indonesia

✗ D. Vietnam

Q.106 **Which of the following launch vehicles was used to launch the Aditya- L1, the first solar mission of India?**

Ans

✗ A. Space Launch Vehicle

✗ B. Geosynchronous Launch Vehicle

✓ C. Polar Satellite Launch Vehicle -XL

✗ D. Geosynchronous Launch Vehicle Mark III

Q.107 **Which of the following is associated with strain?**

Ans

✗ A. Vector

✗ B. Raster

✗ C. Scalar

✓ D. Dimensionless

Q.108 **Who among the following had one of their capitals at Benaras?**

Ans

✗ A. Chahamanas

✗ B. Palas

✓ C. Gahadavalas

✗ D. Paramaras

Q.109 **According to the sustainable development approach, which of the following strategies is essential for rural development?**

Ans

✗ A. Prioritising short-term economic gains

✓ B. Integrating environmental sustainability with economic development

✗ C. Increasing reliance on non-renewable resources

✗ D. Focusing solely on agricultural productivity

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Q.110 What characterises employment in the informal sector of the Indian economy?

Ans

✗ A. Workers are entitled to social security benefits and formal job protection.

✗ B. Employment contracts are always written and legally binding.

✓ C. Employment primarily involves self-employment or small, unregistered businesses.

✗ D. Informal sector jobs are typically high-wage positions.

Q.111 When did Ashwini Vaishnaw launch Digital Intelligence Platform (DIP) of Department of Technology for Coordination among the stakeholders to curb misuse of telecom resources in cyber-crime and financial fraud?

Ans

✗ A. July 2024

✓ B. March 2024

✗ C. August 2024

✗ D. January 2024

Q.112 Select the correct statement among the following regarding the Lok Adalats.

1. This is a symbol of the justice system that has been prevalent since ancient times.
2. This system is based on Gandhian principles.
3. After independence, the first Lok Adalat in India was established in Madhya Pradesh in the year 1982.
4. The decision given by the Lok Adalat is not binding on both the parties.

Ans

✗ A. Only 1

✗ B. Only 1, 3 and 4

✓ C. Only 1 and 2

✗ D. Only 2, 3 and 4

Q.113 Who is the author of the story book The End of Imagination?

Ans

✗ A. Pema Dorjee

✓ B. Arundhati Roy

✗ C. Shashi Tharoor

✗ D. Prasanna Kumar Acharya

Q.114 To which phylum do round worms belong?

Ans

✗ A. Platyhelminthes

✓ B. Aschelminthes

✗ C. Ctenophora

✗ D. Annelida

Q.115 NASA's very first space mission to study an M-type (metallic) asteroid, Psyche mission, was launched on which date from Kennedy Space Center?

Ans

✗ A. 15 March 2023

✗ B. 01 July 2023

✗ C. 27 December 2023

✓ D. 13 October 2023

Q.116 Identify the INCORRECT pair of biosphere reserve and its associated state from the given options.

Ans

✓ A. Nokrek – Mizoram

✗ B. Dibru-Saikhowa – Assam

✗ C. Panna – Madhya Pradesh

✗ D. Seshachalam – Andhra Pradesh

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Q.117 VL-832, PBW-502 and Aditya (HD 2781) are varieties of which Indian crop?

Ans

✗ A. Rice

✓ B. Wheat

✗ C. Jute

✗ D. Maize

Q.118 Which of the following has the highest specific heat capacity at room temperature and atmospheric pressure?

Ans

✗ A. Glass

✓ B. Water

✗ C. Mercury

✗ D. Iron

Q.119 Which of the following is the longest train route in India as of 2023?

Ans

✗ A. Tiruvananthpuram-Silchar

✗ B. Tirunelveli-Katra

✓ C. Dibrugarh-Kanniyakumari

✗ D. Agartala-Bangaluru

Q.120 What is the product of the following reaction?

$2NaOH\ (aq) + Zn\ (s) \rightarrow$

Ans

✗ A. 1. Na_2ZnO_2 (s) and H_2O (l)

✓ B. 2. Na_2ZnO_2 (s) and H_2 (g)

✗ C. 3. ZnO_2 (s) and N_2O (g)

✗ D. 4. ZnO_2 (s) and H_2O (l)

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रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS

सी ई एन आर पी एफ - ०१/२०२४ - CEN RPF - 01/2024

Test Date	09/12/2024
Test Time	9:00 AM - 10:30 AM
Subject	RRB RPF SI 2024

*** Note**
Correct Answer will carry 1 mark per Question.
Incorrect Answer will carry 1/3 Negative mark per Question.

1. Options shown in green color with a tick icon are correct.

Section : **Arithmetic**

Q.1 **If $\frac{p}{q} = \frac{19}{5} + \frac{2}{7} - 2.4 + \left(\frac{4.8}{2.4}\right)^2$, where p/q is a simplest form, then find the sum of the digits of q.**

Ans
- ✗ A. 6
- ✗ B. 5
- ✗ C. 7
- ✓ D. 8

Q.2 **A sum, when invested at 10% simple interest per annum, amounts to ₹9360 after 3 years. What is the simple interest (in ₹) on the same sum at the same rate in 1 year?**

Ans
- ✗ A. 1440
- ✓ B. 720
- ✗ C. 360
- ✗ D. 2880

Q.3 **A bank offers 2.6% compound interest per annum calculated on a half-yearly basis. A customer deposits ₹8565 each on 1 January and 1 July of a year. At the end of the year, the amount he would have gained by way of interest is _____. [Give your answer correct to 2 decimal places.]**

Ans
- ✗ A. ₹325.48
- ✗ B. ₹343.66
- ✗ C. ₹323.72
- ✓ D. ₹335.48

Q.4 **A bank offers 3.8% compound interest per annum calculated on a half-yearly basis. A customer deposits ₹2710 each on 1 January and 1 July of a year. At the end of the year, the amount he would have gained by way of interest is _____. [Give your answer correct to 2 decimal places.]**

Ans
- ✓ A. ₹155.44
- ✗ B. ₹175.44
- ✗ C. ₹174.88
- ✗ D. ₹170.5

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Q.5 What time (in seconds) is required for a 188 m long train to cross a 472 m long tunnel, if the train travels at a speed of 27 km/h?

Ans

✗ A. 98

✗ B. 79

✓ C. 88

✗ D. 80

Q.6 Ruchi and Sheetal invest in a business in the ratio 9 : 6. If total profit is Rs. 2775, then what is difference between the profit (in Rs.) of Ruchi and Sheetal?

Ans

✗ A. 605

✓ B. 555

✗ C. 705

✗ D. 405

Q.7 A number when increased by 50 %', gives 3780. The number is:

Ans

✗ A. 5040

✗ B. 7560

✓ C. 2520

✗ D. 1260

Q.8 During sale, Raghav bought a notebook marked for ₹100 at 86% discount and a pen marked for ₹95 at 40% discount. How much (in ₹) did he save due to sale?

Ans

✗ A. 123

✗ B. 121

✗ C. 126

✓ D. 124

Q.9 The sides of a triangle are 60 cm, 75 cm, and 45 cm. What is its area? (in cm^2)

Ans

✗ A. 1307

✗ B. 1390

✗ C. 1385

✓ D. 1350

Q.10 The area of a square plot is 29929 m^2 . The length of each side of the plot (in m) is:

Ans

✗ A. 197

✓ B. 173

✗ C. 163

✗ D. 177

Q.11 If x varies inversely as $y^3 - 1$ and is equal to 6 when y = 3, find x when y = 9.

Ans

✓ A. $\frac{3}{14}$

✗ B. $\frac{4}{15}$

✗ C. $\frac{5}{14}$

✗ D. $\frac{3}{15}$

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Q.12 The average of eight numbers is 20. The average of five of these numbers is 18. The average of the remaining three numbers is

Ans
- ✗ A. 22.33
- ✗ B. 24.33
- ✗ C. 25.33
- ✓ D. 23.33

Q.13 The smallest natural number which is divisible by 13, 6, 24 and 39 is:

Ans
- ✗ A. 359
- ✓ B. 312
- ✗ C. 340
- ✗ D. 243

Q.14 Find the value of $\left[(29 \times 8) \times \left\{2 \div 2 \times \frac{(18-11)}{7}\right\}\right]$

Ans
- ✗ A. 234
- ✗ B. 233
- ✗ C. 228
- ✓ D. 232

Q.15 The expenditure of Sudha is 100% more than her savings. If her expenditure decreases by 2% and savings increase by 10%, then by what percent does her income increase?

Ans
- ✗ A. 0.05
- ✓ B. 0.02
- ✗ C. 0.01
- ✗ D. 0.06

Q.16 A trader gives 5% discount on the marked price of an article and gives 4 articles free for buying 14 articles and gains 33% in the entire transaction. Assuming a customer pays for 14 articles, the marked price of an article is what per cent more than its cost price?

Ans
- ✗ A. 90%
- ✓ B. 80%
- ✗ C. 81%
- ✗ D. 79%

Q.17 The smallest 1-digit number to be added to the 6-digit number 777288 so that it is completely divisible by 11 is:

Ans
- ✗ A. 7
- ✓ B. 5
- ✗ C. 9
- ✗ D. 1

Q.18 Chandu covers 245 km in a boat in 30 hours against the stream and he takes 21 hours with the stream then find the speed of the stream?

Ans
- ✗ A. 5.75 km/h
- ✗ B. 7.18 km/h
- ✗ C. 10.88 km/h
- ✓ D. 1.75 km/h

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Q.19 $\frac{4}{6}, \frac{7}{79}, \frac{19}{54}, \frac{54}{84}$

Ans
- ✗ A. $\frac{19}{54}$
- ✗ B. $\frac{7}{79}$
- ✓ C. $\frac{4}{6}$
- ✗ D. $\frac{54}{84}$

Q.20 To create a mixture that costs ₹110 per kg, 30 kg of one type of rice :

Ans
- ✗ A. ₹125 per kg
- ✗ B. ₹135 per kg
- ✗ C. ₹120 per kg
- ✓ D. ₹130 per kg

Q.21 $\frac{(a^9 \times b^9 \times c^3)}{(a^7 \times b^5 \times c^2)}$ in simplified form is:

Ans
- ✗ A. $(a^{10}) \times (b^5) \times (c^{-1})$
- ✗ B. $(a^9) \times (b^2) \times (c^9)$
- ✗ C. $(a^{10}) \times (b^{-2}) \times (c^{-2})$
- ✓ D. $(a^2) \times (b^4) \times (c^1)$

Q.22 **The smallest 1-digit number to be added to the 6-digit number 489483 so that it is completely divisible by 11 is:**

Ans
- ✗ A. 5
- ✗ B. 4
- ✗ C. 3
- ✓ D. 6

Q.23 **12 chefs can make 96 dishes in 4 hours. Find the average dishes that can be made by each chef in an hour.**

Ans
- ✗ A. 8
- ✗ B. 6
- ✓ C. 2
- ✗ D. 4

Q.24 **A man walks to a viewpoint and returns to the starting point by his car maintaining constant speed and thus takes a total time of 7 hours 15 minutes. He would have gained 6 hours by driving both ways. How long would it have taken for him to walk both ways with same walking speed?**

Ans
- ✗ A. 13 hours 45 minutes
- ✗ B. 14 hours 30 minutes
- ✗ C. 12 hours 15 minutes
- ✓ D. 13 hours 15 minutes

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Q.25 **The selling price of 32 books is equal to the cost price of 24 books. Find the loss or gain percentage.**

Ans

✗ A. $\frac{100}{8}\%\ loss$

✓ B. 25 % loss

✗ C. 25 % gain

✗ D. $\frac{100}{8}\%\ gain$

Q.26 **The smallest natural number which is divisible by 40, 16, 8 and 24 is:**

Ans

✗ A. 332

✗ B. 270

✗ C. 226

✓ D. 240

Q.27 **Lalit's average earning per month in the first three months of a year was ₹4184. In April, his earning was 50% more than the average earning in the first three months. If his average earning per month for the whole year is ₹17553, then what will be Lalit's average earning (in ₹) per month from May to December?**

Ans

✗ A. 23978

✗ B. 23979

✓ C. 23976

✗ D. 23973

Q.28 **The average of 7 numbers is 55. If each number is increased by 6, what will the new average be?**

Ans

✗ A. 7

✗ B. 55

✗ C. 67

✓ D. 61

Q.29 Study the given table and answer the question that follows.
The table shows the monthly expenditure (in ₹) of five people on education, rent, food, conveyance and electricity.

Person	Education	Rent	Food	Conveyance	Electricity
Praveen	5,000	3,800	4,800	3,500	2,000
Rohan	6,400	4,000	4,500	4,000	2,400
Reena	5,500	3,600	4,000	3,600	1,800
Seema	6,000	4,200	5,000	4,400	2,200
Teena	7,000	4,400	5,500	4,000	2,500

Find the ratio of the amount spent by Rohan and Teena on food and education to the amount spent by Praveen and Seema on rent and conveyance.

Ans

✗ A. 81 : 68

✗ B. 45 : 34

✗ C. 38 : 29

✓ D. 78 : 53

Q.30 **Simplify the following:**
$\{(-1.5)\times(-8.2)-3.3\}(4.2)^2$

Ans

✗ A. 158

✗ B. 155.76

✗ C. 155

✓ D. 158.76

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Q.31 **Find the surface area of a sphere whose diameter is equal to 8 cm.**

Ans

✗ A. 1. 87 cm^2

✗ B. 2. 786 cm^2

✓ C. 3. 64 cm^2

✗ D. 4. 543 cm^2

Q.32 My little sister is filling a conical bag with gems. She knows that the ca

Ans

✗ A. 8.454 inches

✗ B. 8.455 inches

✓ C. 8.544 inches

✗ D. 8.545 inches

Q.33 Find the gain percentage, given that Aditi sold her scooter for ₹82008

Ans

✗ A. 30%

✗ B. 10%

✗ C. 35%

✓ D. 20%

Q.34 **Shweta and Monika invest in a business in the ratio 2 : 1. If total profit is Rs. 1347, then what is difference between the profit (in Rs.) of Shweta and Monika?**

Ans

✓ A. 449

✗ B. 399

✗ C. 599

✗ D. 549

Q.35 **Two trains of equal length are running on parallel lines in the same direction at speeds of 97 km/h and 21 km/h. The faster train passes the slower train in 45 seconds. The length of each train is:**

Ans

✓ A. 475 meters

✗ B. 472 meters

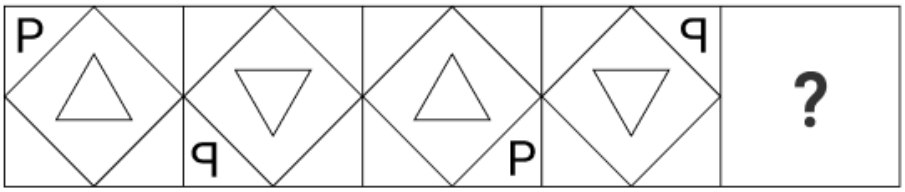
✗ C. 466 meters

✗ D. 477 meters

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Q.36



Ans

✗ A.



✗ B.



✗ C.



✓ D.



Q.37 **In a certain code language, 'CROP' is coded as '4317' and 'COIR' is coded as '4237'. What is the code for 'I' in the given code language?**

Ans

✗ A. 7

✗ B. 3

✓ C. 2

✗ D. 4

Q.38 **Select the number from among the given options that can replace the question mark (?) in the following series.**

29 36 50 71 99 ?

Ans

✗ A. 136

✓ B. 134

✗ C. 132

✗ D. 138

Q.39 **86 is related to 298 following a certain logic. Following the same logic, 105 is related to 317. To which of the following is 48 related, following the same logic?**
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting /multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

Ans

✗ A. 250

✗ B. 270

✗ C. 280

✓ D. 260

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Q.40 Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?

(Note: The odd man out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans

✗ A. KLJ

✓ B. AZX

✗ C. QRP

✗ D. FGE

Q.41 What should come in place of the question mark (?) in the given series based on the English alphabetical order?
EGB, FHF, GIJ, HJN, ?

Ans

✗ A. IRK

✗ B. RIK

✗ C. KIR

✓ D. IKR

Q.42 G, H, I, J, M, N and O are sitting around a square table facing the centre of the table. Only five people sit between H and G. O sits to the immediate left of G. Only one person sits between O and I. J sits at some place to the left of N but at some place to the right of M.
Who sits third from the left end of the line?

Ans

✗ A. O

✗ B. I

✗ C. G

✓ D. J

Q.43 In a certain code language, 'enjoy every moment' is coded as 'ut mb tk' and 'moment of clarity' is coded as 'tk mo mt'. How is 'moment' coded in the given language?

Ans

✗ A. mb

✗ B. ut

✗ C. mo

✓ D. tk

Q.44 A, B, C, D, E, F and G are sitting around a circular table facing the centre. Only two people sit between A and D, when counted from the left of D. E sits third to the left of B. C sits to the immediate right of B. C sits second to the left of A. G is an immediate neighbour of E. How many people sit between B and E, when counted from the left of B?

Ans

✓ A. 2

✗ B. 4

✗ C. 1

✗ D. 3

Q.45 Each of P, Q, R, S, T, U and V has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. S has an exam on Friday. Only 2 people have an exam between S and R. Q has an exam immediately before T and U has an exam immediately after V. Only 2 people have an exam between P and T. How many people have an exam before T?

Ans

✗ A. 1

✗ B. 2

✓ C. 3

✗ D. 4

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Q.46 **In a certain code language, 'LIKE' is coded as '5427' and 'EARS' is coded as '6314'. What is the code for 'E' in the given code language?**

Ans

✗ A. 6

✗ B. 7

✗ C. 1

✓ D. 4

Q.47 **What should come in place of the question mark (?) in the given series based on the English alphabetical order?**

IFM KHO MJQ OLS ?

Ans

✗ A. QMV

✗ B. QNV

✗ C. QMU

✓ D. QNU

Q.48 **Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.**

Statements:
All peas are carrots.
All carrots are onions.
Some onions are brinjals.

Conclusions:
(I): Some peas are brinjals.
(II): Some carrots are brinjals.

Ans

✗ A. Only conclusion II follows

✗ B. Only conclusion I follows

✓ C. Neither conclusion I nor II follows

✗ D. Both conclusions I and II follow

Q.49 **Select the pair that follows the same pattern as that followed by the two pairs given below. Both pairs follow the same pattern.**

QRL : TTM
WVN : ZXO

Ans

✗ A. MBK : OGM

✗ B. SWV : WZX

✗ C. KUQ : MYS

✓ D. CZP : FBQ

Q.50 **Each of A, B, C, D, P, Q and R has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. Only two people have exam before R. Only one person has exam after A. Only three people have exam between R and Q. Only one person has exam between C and D. P has exam immediately before C. Who among the following has exam on Friday?**

Ans

✗ A. A

✗ B. P

✗ C. Q

✓ D. B

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Q.51 **Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of ::?**
: LOU :: ADJ : %

Ans

✔ A. # = HKQ; % = EHN

✘ B. # = HKQ; % = EHM

✘ C. # = HKO; % = EHN

✘ D. # = HKQ; % = FHN

Q.52 **Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number result(s) in the second number. Similarly, certain mathematical operation(s) on the second number result(s) in the third number and so on. Which of the given options follows the same set of operations as in the given sets? (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting / multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)**
3 - 4 - 5 - 10 ; 1 - 2 - 3 - 6

Ans

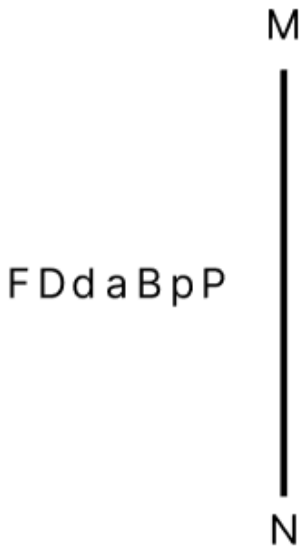
✘ A. 17 - 18 - 19 - 20

✔ B. 8 - 9 - 10 - 20

✘ C. 7 - 8 - 9 - 10

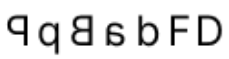
✘ D. 12 - 13 - 14 - 20

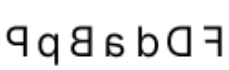
Q.53

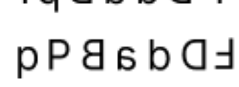


Ans

✘ A. 

✘ B. 

✔ C. 

✘ D. 

Q.54 **Seven boxes K, L, M, N, O, P and T are kept one over the other, but not necessarily in the same order. Only M is kept above O. Only P is kept between O and T. Only N is kept below K. How many boxes are kept between L and M?**

Ans

✘ A. Two

✘ B. One

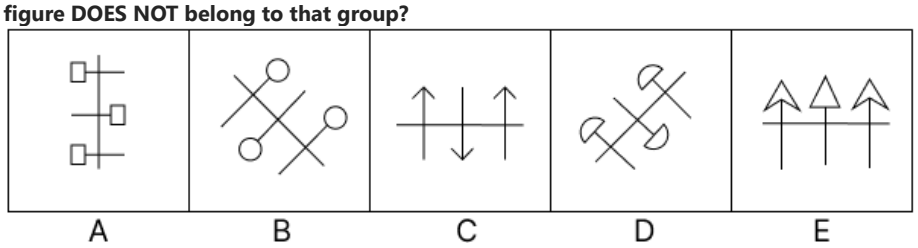
✔ C. Three

✘ D. Four

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Q.55 **Four of the following five figures are alike in a certain way and thus form a group. Which figure DOES NOT belong to that group?**



Ans
- ✔ A. E
- ✘ B. D
- ✘ C. C
- ✘ D. A

Q.56 **Refer to the following letter and symbol series and answer the question that follows. Counting to be done from left to right only.**

(Left) Y # E S * £ B K Ω G C & T % Q & R D A @ U $ (Right)

How many such symbols are there each of which is immediately preceded by another symbol and also immediately followed by a letter?

Ans
- ✘ A. 3
- ✘ B. 0
- ✘ C. 2
- ✔ D. 1

Q.57 **Refer to the following letter, number, symbol series and answer the question that follows.**
(Left) R % C & E 2 S 4 # 5 K & 7 G Y @ 3 6 T * D (Right)

How many such symbols are there, which are immediately preceded by a letter and also immediately followed by a number?

Ans
- ✘ A. Three
- ✘ B. One
- ✔ C. Two
- ✘ D. None

Q.58 **Mayank starts from Point A and drives 9 km towards the South. He then takes a left turn, drives 11 km, turns left and drives 15 km. He then takes a left turn and drives 12 km. He takes a final left turn, drives 6 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degrees turns only unless specified)**

Ans
- ✘ A. 1 km to the west
- ✔ B. 1 km to the east
- ✘ C. 2 km to the east
- ✘ D. 2 km to the west

Q.59 **Z is the mother of S. P is the daughter of Q. G is the husband of Z. Q is the son of R. S is the mother of P. How is G related to Q?**

Ans
- ✔ A. Wife's father
- ✘ B. Mother's brother
- ✘ C. Sister's husband
- ✘ D. Brother's son

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Q.60 **Refer to the following letter, number and symbol series and answer the question that follows. Counting to be done from left to right only.**
(Left) 7 J £ W € 2 Q £ K £ 6 1 D U & 1 4 M Y * V X (Right)
If all the numbers are dropped from the series, which of the following will be eighth from the left?

Ans
- ✗ A. D
- ✗ B. €
- ✓ C. £
- ✗ D. K

Q.61 **Yangden starts from Point A and drives 14 km towards south. He then takes a right turn, drives 13 km, turns right and drives 17 km. He then takes a right turn and drives 19 km. He takes a final right turn, drives 3 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degrees turns only unless specified)**

Ans
- ✗ A. 4 km to the west
- ✗ B. 5 km to the west
- ✗ C. 2 km to the west
- ✓ D. 6 km to the west

Q.62 **If 'A' stands for '÷', 'B' stands for '×', 'C' stands for '+' and 'D' stands for '−', what will be come in place of question mark '?' in the following equation?**
31 C 25 B 32 A 40 D 32 = ?

Ans
- ✗ A. 21
- ✗ B. 20
- ✓ C. 19
- ✗ D. 17

Q.63 **Each of the digits in the number 71248935 is arranged in descending order from left to right. Which of the following digits will be fifth from the right?**

Ans
- ✗ A. 3
- ✗ B. 4
- ✗ C. 7
- ✓ D. 5

Q.64 **Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which is the letter-cluster pair that DOES NOT belong to that group?**

(Note: The odd man out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans
- ✗ A. BH-EK
- ✗ B. JP-MS
- ✓ C. NU-RX
- ✗ D. FL-IO

Q.65 **If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 5834671, which of the following digits will be first from the right in the new number thus formed?**

Ans
- ✗ A. 5
- ✓ B. 2
- ✗ C. 4
- ✗ D. 8

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Q.66 **S is the wife of D. D is the brother of F. F is the father of G. G is the mother of H. How is S related to H?**

Ans

✗ A. Father's mother's brother's wife

✓ B. Mother's father's brother's wife

✗ C. Father's father's brother's wife

✗ D. Mother's mother's brother's wife

Q.67 **Select the triad that follows the same pattern as the one followed by the two triads given below. Both triads follow the same pattern.**

OK-RN-TW
MI-PL-RU

Ans

✗ A. LG-NI-PR

✗ B. KG-NJ-PR

✓ C. KG-NJ-PS

✗ D. LG-NJ-PR

Q.68 **Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?**

(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans

✗ A. YAX

✗ B. OQN

✗ C. DFC

✓ D. HKG

Q.69 **Six people, named W, X, Y, Z, T and U, each are of different ages. The age of T is 24. The age of W is one-fourth times the age of U. The age of Z is half times the age of X. The age of U is three times the age of Z. The age of T is two times the age of W. If The age of X is four times the age of Y. What is the age of Y?**

Ans

✓ A. 8

✗ B. 12

✗ C. 13

✗ D. 15

Q.70 **This question is based on the following words.**
WAR PIN AND FEW
If in each of the words, each letter is changed to the next letter in the English alphabetical order, how many words thus formed will have no vowel?

Ans

✗ A. 3

✓ B. 2

✗ C. 4

✗ D. 1

Section : **General Awareness**

Q.71 **Which of the following conditions were NOT true for India's first winter scientific arctic expedition flagged off by Kiren Rijiju in 2023?**

Ans

✓ A. The exploration was carried out for the months of November and December only.

✗ B. There was almost no sunlight for 24 hours.

✗ C. Subzero temperatures.

✗ D. The exploration was carried out for the months of November to March.

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Q.72 **____ is a form of government in which the rulers are elected by the people.**

Ans

✗ A. Fascism

✗ B. Theocracy

✗ C. Oligopoly

✓ D. Democracy

Q.73 **Which of the following Articles of the Indian Constitution provides for the Protection of 'Life and Personal Liberty'?**

Ans

✗ A. Article 18

✗ B. Article 22

✗ C. Article 25

✓ D. Article 21

Q.74 **Which of the following pH values indicates neutrality in a solution?**

Ans

✗ A. 14

✗ B. −14

✓ C. 7

✗ D. 0

Q.75 **When is the Marginal Rate of Substitution (MRS) of Y for X relevant?**

Ans

✗ A. When the consumer acquires additional units of both X and Y

✗ B. When the consumer is ready to give up Y for an additional unit of X

✗ C. When the consumer ready to give up both X and Y

✓ D. When the consumer is ready to give up X for an additional unit of Y

Q.76 **Field lines serve as a representation of a magnetic field. They represent a path along which:**

Ans

✗ A. a hypothetical free south pole would tend to move

✗ B. a free proton would tend to move

✗ C. a free electron would tend to move

✓ D. a hypothetical free north pole would tend to move

Q.77 **The Chamoli, Pithoragarh and Almora districts are part of which biosphere reserve?**

Ans

✓ A. Nanda Devi

✗ B. Similipal

✗ C. Nokrek

✗ D. Cold Desert

Q.78 **Select the correct group of crops that are grown in the 'Rabi' season in India.**

Ans

✓ A. Gram and Mustard

✗ B. Urad and Groundnut

✗ C. Gram and Paddy

✗ D. Barley and Jowar

Q.79 **Which of the following bills was passed in Parliament to regulate the appointment, conditions of service and term of office of the Chief Election Commissioner and other Election Commissioners, the procedure for transaction of business by the Election Commission and for matters connected therewith or incidental thereto?**

Ans

✗ A. The Chief Election Commissioner and other Election Commissioners (Appointment Conditions of Service and Term of Office) Bill, 2024

✗ B. The Chief Election Commissioner and other Election Commissioners (Procedure for Transaction of Business) Bill, 2023

✓ C. The Chief Election Commissioner and other Election Commissioners (Appointment Conditions of Service and Term of Office) Bill, 2023

✗ D. The Chief Election Commissioner and other Election Commissioners (Procedure for Transaction of Business) Bill, 2024

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Q.80 **In which of the following years was the battle of Bannihatti fought?**

Ans

✗ A. 1558

✗ B. 1556

✗ C. 1560

✓ D. 1565

Q.81 **Which country officially became the 100th full member of the International Solar Alliance (ISA) in June 2024?**

Ans

✗ A. Nepal

✗ B. Spain

✓ C. Paraguay

✗ D. Armenia

Q.82 **The child sex ratio (females per 1000 males) in India from 1951 to 2011:**

Ans

✗ A. increased and then decreased

✗ B. increased

✓ C. decreased

✗ D. was stable

Q.83 **What do you call the pattern of arrangement of leaves on a stem or branch?**

Ans

✗ A. Thallotaxy

✓ B. Phyllotaxy

✗ C. Geotaxis

✗ D. Apotaxis

Q.84 **The Carriage of Goods by Sea Bill, 2024, introduced in Lok Sabha on 9 August 2024 seeks to replace the Indian Carriage of Goods by Sea Act, ____.**

Ans

✓ A. 1925

✗ B. 1915

✗ C. 1906

✗ D. 1921

Q.85 **Which of the following statements is INCORRECT with respect to Agri-Clinics and Agri-Business Centres (AC&ABC) Scheme in India?**

Ans

✗ A. National Institute of Agricultural Extension Management (MANAGE) is the implementing agency for training component under the scheme.

✗ B. As of December 2022, about 83810 candidates have been trained under the scheme so far.

✗ C. NABARD is implementing subsidy component under the scheme on the behalf of Government of India.

✓ D. The AC & ABC Scheme is under implementation since April 2008.

Q.86 **Which of the following Neolithic sites yielded the remains of three species of deer (the Barasingha, Gazelle, and Spotted Deer)?**

Ans

✗ A. Patne

✓ B. Kodekal

✗ C. Didwana

✗ D. Bhimbetka

Q.87 **Which of the following Articles of the Indian Constitution states that it is the duty of every citizen of India to safeguard public property and to abjure violence?**

Ans

✓ A. Article 51A (i)

✗ B. Article 51A (d)

✗ C. Article 51A (k)

✗ D. Article 51A (f)

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Q.88 **As of February 2024, which year marked the highest number of prisoners on death row in nearly 20 years in India?**

Ans
- ✔ A. 2023
- ✘ B. 2020
- ✘ C. 2021
- ✘ D. 2019

Q.89 **Which government programme aims to provide employment to rural households through works related to water conservation, land development, and rural infrastructure?**

Ans
- ✘ A. Pradhan Mantri Rozgar Yojana (PMRY)
- ✔ B. Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA)
- ✘ C. National Rural Livelihood Mission (NRLM)
- ✘ D. Swachh Bharat Abhiyan

Q.90 **The kings of which among the following dynasties defeated the kings of Malaya, Java and Sumatra?**

Ans
- ✔ A. Chola
- ✘ B. Pandaya
- ✘ C. Chera
- ✘ D. Rashtrakuta

Q.91 **Who among the following is revered as 'Karnataka Sangita Pitamaha'?**

Ans
- ✔ A. Purandara Dasa
- ✘ B. Annamacharya Dasa
- ✘ C. Muthuswami Dikshitar Dasa
- ✘ D. Tyagaraja Dasa

Q.92 **Who among the following former RAW Chiefs has written the book titled 'A Life in the Shadows: A Memoir'?**

Ans
- ✔ A. AS Dulat
- ✘ B. JS Bedi
- ✘ C. Alok Joshi
- ✘ D. Arvind Dave

Q.93 **On which of the following scientific principles does a steam engine work?**

Ans
- ✘ A. 1. Superconductivity
- ✔ B. Laws of thermodynamics
- ✘ C. 3. Newton's laws of motion
- ✘ D. 4. Photoelectric effect

Q.94 **Who among the following is an Indian-origin Satellite Industry Expert who was appointed as Director of United Nations Office for Outer Space Affairs in June 2023?**

Ans
- ✘ A. Michael Rao
- ✘ B. Kaushik Basu
- ✔ C. Aarti Holla-Maini
- ✘ D. Behruz Sethna

Q.95 **Which of the following dams is not located in Uttarakhand?**

Ans
- ✘ A. Lakhwar Dam
- ✘ B. Tehri Dam
- ✔ C. Nagi Dam
- ✘ D. Ramganga Dam

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Q.96 **Onam festival is celebrated in which of the following states of India?**

Ans
- ✗ A. Maharashtra
- ✗ B. Gujarat
- ✓ C. Kerela
- ✗ D. Arunachal Pradesh

Q.97 **'The service of mankind is a means to salvation'. This slogan was propounded by Gangadhar Chattopadhyay. He was associated with _____**

Ans
- ✓ A. Ramakrishna Mission
- ✗ B. Prarthana Samaj
- ✗ C. Arya Samaj
- ✗ D. Brahmo Samaj

Q.98 **Where was the 0832 India Open Competition – Rifle and Pistol 2024 organised and conducted by the National Rifle Association of India in August 2024?**

Ans
- ✓ A. Goa
- ✗ B. Delhi
- ✗ C. Panipat
- ✗ D. Aligarh

Q.99 **Which of the following is NOT a class of sub phylum vertebrata?**

Ans
- ✗ A. Reptilia
- ✗ B. Mammals
- ✗ C. Aves
- ✓ D. Arachnida

Q.100 **In which of the following Articles are there provisions related to establishment of the Election Commission?**

Ans
- ✗ A. Article 343
- ✗ B. Article 330
- ✗ C. Article 353
- ✓ D. Article 324

Q.101 **Who among the following wrote 'The Palace of Illusions'?**

Ans
- ✗ A. Aravind Adiga
- ✗ B. Gayatri Sinha
- ✓ C. Chitra Banerjee Divakaruni
- ✗ D. Rajiv Malhotra

Q.102 **What was the final bidding price of Tata Sons for Air India?**

Ans
- ✗ A. Rs.16,000 crores
- ✗ B. Rs.12,000 crores
- ✓ C. Rs.18,000 crores
- ✗ D. Rs.22,000 crores

Q.103 **Which of the following statements is INCORRECT?**

Ans
- ✓ A. The first phase of the green revolution was started around the mid-1950s.
- ✗ B. The use of High yielding variety seeds was restricted to the more affluent states.
- ✗ C. The green revolution enabled the government to procure a sufficient amount of food grains to build a stock.
- ✗ D. The spread of green revolution technology enabled India to achieve self-sufficiency in food grains.

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Q.104 Which of the following is NOT a criterion for the post of the Chief Justice of India?

Ans

✔ A. Has been for at least five years an advocate of a High Court or of two or more such Courts in succession

✘ B. In the opinion of the President, a distinguished jurist

✘ C. Has been for at least five years a Judge of a High Court or of two or more such Courts in succession

✘ D. He/She is a citizen of India

Q.105 Which of the following committees recommended the use of Mixed Reference Period against Uniform Reference Period?

Ans

✘ A. C Rangrajan Committee

✔ B. Tendulkar Expert Group

✘ C. NITI Aayog

✘ D. National Sample Survey Organisation

Q.106 Who among the following Mughal Princes allied with Malik Ambar and revolted against his father?

Ans

✔ A. Shah Jahan

✘ B. Aurangzeb

✘ C. Jahangir

✘ D. Akbar

Q.107 How does the Securities and Exchange Board of India (SEBI) enhance investor protection?

Ans

✘ A. By providing insurance to investors

✘ B. By setting monetary policies

✔ C. By regulating stock exchanges and securities to prevent fraud

✘ D. By directly investing in the stock market

Q.108 What is the tenure of the Chief Election Commissioner of India?

Ans

✔ A. Six years or till the age of 65 years, whichever is earlier

✘ B. Five years or till the age of 60 years, whichever is earlier

✘ C. Six years

✘ D. At the pleasure of the President

Q.109 Which Article of the Indian Constitution provided power to the Supreme Court of India to review its own judgements?

Ans

✔ A. Article 137

✘ B. Article 138

✘ C. Article 150

✘ D. Article 140

Q.110 Where are the Lakshadweep Islands located?

Ans

✘ A. Close to the Coromandel coast of Tamil Nadu

✔ B. Close to the Malabar coast of Kerala

✘ C. Close to the Konkan coast of Maharashtra

✘ D. Close to the Coromandel coast of Andhra Pradesh

Q.111 Which former Indian shooter became the first Indian President of the Olympic Council of Asia (OCA) in 2024?

Ans

✘ A. Rajyavardhan Singh Rathore

✘ B. Joydeep Karmakar

✘ C. Vijay Kumar

✔ D. Raja Randhir Singh

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Q.112 Who is the Minister of State for Defence as of August 2024 in India?

Ans
- ✔ A. Sanjay Seth
- ✘ B. Alok Tiwari
- ✘ C. Vijay Bhatt
- ✘ D. Amrendra Tiwari

Q.113 Who among the following formed the Ghadr (Gadar) Party to organise a rebellion against the British government of India in the USA?

Ans
- ✘ A. Subhash Chandra Bose
- ✘ B. Ram Prasad Bismil
- ✔ C. Lala Hardayal
- ✘ D. Sachindra Nath Bakshi

Q.114 According to the Census of India 2011, from the given options, which state recorded the lowest literacy rate?

Ans
- ✘ A. Meghalaya
- ✘ B. Haryana
- ✘ C. Uttarakhand
- ✔ D. Arunachal Pradesh

Q.115 Which of the following is responsible for the conversion of stored fats into sugars in plant cell?

Ans
- ✘ A. Oxysome
- ✔ B. Glyoxysome
- ✘ C. Golgi body
- ✘ D. Ribosome

Q.116 Which of the following compositions reflects the devotional form of Carnatic music?

Ans
- ✘ A. Alha
- ✘ B. Hori
- ✘ C. Pandavani
- ✔ D. Devara Nama

Q.117 Who became the President of Mexico in June 2024 who was a climate scientist and former mayor of Mexico City?

Ans
- ✘ A. Andres Manuel Lopez Obrador
- ✔ B. Claudia Sheinbaum
- ✘ C. Felipe Calderon
- ✘ D. Enrique Pena Nieto

Q.118 Who among the following religious and social reformers contributed in the abolition of Sati in 1929?

Ans
- ✘ A. Radhakant Deb
- ✘ B. Ishwar Chandra Vidyasagar
- ✔ C. Raja Rammohan Roy
- ✘ D. Jyotirao Govindrao Phule

Q.119 Which of the following rivers is NOT a part of the Deccan river system?

Ans
- ✘ A. Krishna
- ✔ B. Sutlej
- ✘ C. Cauvery
- ✘ D. Godavari

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Q.120 **ISRO successfully tested a 100 W class Polymer Electrolyte Membrane Fuel Cell based Power System (FCPS) in its orbital platform, POEM3, using which of the following two gases?**

Ans

✔ A. Hydrogen and oxygen

✘ B. Nitrogen and argon

✘ C. Nitrogen and oxygen

✘ D. Hydrogen and helium

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रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS

सी ई एन आर पी एफ - ०१/२०२४ - CEN RPF - 01/2024

Test Date	09/12/2024
Test Time	12:30 PM - 2:00 PM
Subject	RRB RPF SI 2024

*** Note**
Correct Answer will carry 1 mark per Question.
Incorrect Answer will carry 1/3 Negative mark per Question.

1. Options shown in green color with a tick icon are correct.

Section : **Arithmetic**

Q.1 **A sum, when invested at 20% simple interest per annum, amounts to ₹3120 after 3 years. What is the simple interest (in ₹) on the same sum at the same rate in 1 year?**

Ans
- ✗ A. 195
- ✗ B. 1560
- ✓ C. 390
- ✗ D. 780

Q.2 **If the average of three consecutive numbers is 42, find the second smallest of these numbers.**

Ans
- ✗ A. 44
- ✓ B. 42
- ✗ C. 41
- ✗ D. 43

Q.3 **The smallest natural number which is divisible by 18, 5, 81 and 90 is:**

Ans
- ✗ A. 751
- ✓ B. 810
- ✗ C. 720
- ✗ D. 797

Q.4 **The average of 7 numbers is 57. If each number is increased by 6, what will the new average be?**

Ans
- ✗ A. 7
- ✓ B. 63
- ✗ C. 69
- ✗ D. 57

Q.5 **Amit sold 171 chairs and had a gain equal to the selling price of 71 chairs. What is his profit percentage?**

Ans
- ✗ A. 81%
- ✗ B. 66%
- ✗ C. 76%
- ✓ D. 71%

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Q.6 A shopkeeper sells an item for ₹960.4 after giving two successive discounts of 30% and 80% on its marked price. Had he not given any discount, he would have earned a profit of 40%. What is the cost price (in ₹) of the item?

Ans

✔ A. 4900

✘ B. 4931

✘ C. 4920

✘ D. 4908

Q.7 $\frac{5}{9}+\frac{1}{9}+\frac{3}{18}+\frac{3}{9}-1=$

Ans

✘ A. $\frac{1}{18}$

✔ B. $\frac{3}{18}$

✘ C. $\frac{9}{18}$

✘ D. $-\frac{7}{18}$

Q.8 A milk vendor has 40 litres of a 40% milk solution. How many litres of pure water should be added so that the resulting mixture is a 25% milk solution?

Ans

✘ A. 20

✔ B. 24

✘ C. 25

✘ D. 23

Q.9 A train runs at a speed of 92 kmph to cover a distance of 184 km and then at a speed of 102 kmph to cover a distance of 204 km. Find the average speed of the train for the entire distance.

Ans

✘ A. 134 kmph

✘ B. 92 kmph

✔ C. 97 kmph

✘ D. 98 kmph

Q.10 Yamini and Zareen together invested ₹37200 in a business. At the end of the year, out of a total profit of ₹5000, Yamini's share was ₹1300. What was the investment of Zareen?

Ans

✘ A. ₹26605

✔ B. ₹27528

✘ C. ₹28830

✘ D. ₹26470

Q.11 LCM and HCF of two numbers are 162 and 27 respectively. If one of the numbers is 54, then find the other number.

Ans

✘ A. 82

✔ B. 81

✘ C. 80

✘ D. 78

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Q.12 $0.04\overline{3} + 2$

Ans

✗ A. $2\frac{17}{900}$

✗ B. $2\frac{17}{300}$

✗ C. $2\frac{13}{900}$

✓ D. $2\frac{13}{300}$

Q.13 The volume of a conical tent is 9240 m^3 and the area of its base is 138 What is the length of the canvas required to build the tent if the width

(Use $\pi = \frac{22}{7}$)

Ans

✓ A. 638 m

✗ B. 432 m

✗ C. 687 m

✗ D. 568 m

Q.14 **The price (per litre) of petrol increases by 60%. By what percent should its consumption be reduced such that the expenditure on it increases by 28% only?**

Ans

✓ A. 80%

✗ B. 73%

✗ C. 74%

✗ D. 79%

Q.15 **The population of a village was 130000. It increased by 15% in the first year and increased by 30% in the second year. Its population after two years is _____.**

Ans

✗ A. 188500

✗ B. 149500

✓ C. 194350

✗ D. 169000

Q.16 **The cost of painting a rectangular sheet at the rate of ₹1.5 per square cm is ₹945. If the length of the rectangular sheet is 30 cm, then what is its breadth (in cm)?**

Ans

✗ A. 20

✗ B. 19

✓ C. 21

✗ D. 22

Q.17 **A can contains a mixture of two liquids P and Q in the ratio 8 : 7. When 5 Litre of the mixture are drawn off and the can is filled with Q, the ratio of P and Q becomes 2 : 3. How many litres of liquid P was contained by the can initially?**

Ans

✗ A. $\frac{35}{3}$ L

✗ B. $\frac{25}{3}$ L

✓ C. $\frac{32}{3}$ L

✗ D. $\frac{28}{3}$ L

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Q.18 If at same rate of interest, in 2 years, the simple interest is ₹60 and compound interest is ₹62, then what is the principal (in ₹)?

Ans

✗ A. 443

✗ B. 454

✗ C. 445

✓ D. 450

Q.19 A train runs at a speed of 114 kmph to cover a distance of 228 km and then at a speed of 93 kmph to cover a distance of 372 km. Find the average speed of the train for the entire distance.

Ans

✗ A. 60 kmph

✗ B. 113 kmph

✓ C. 100 kmph

✗ D. 125 kmph

Q.20 Evaluate 124^2

Ans

✗ A. 15356

✗ B. 15406

✗ C. 15366

✓ D. 15376

Q.21 During sale, Raghav bought a notebook marked for ₹35 at 20% discount and a pen marked for ₹100 at 79% discount. How much (in ₹) did he save due to sale?

Ans

✗ A. 83

✗ B. 89

✓ C. 86

✗ D. 85

Q.22 The smallest natural number which is divisible by 33, 6, 8 and 16 is:

Ans

✗ A. 502

✓ B. 528

✗ C. 500

✗ D. 550

Q.23 A man walks to a viewpoint and returns to the starting point by his car maintaining constant speed and thus takes a total time of 8 hours 45 minutes. He would have gained 5 hours by driving both ways. How long would it have taken for him to walk both ways with same walking speed?

Ans

✗ A. 14 hours 15 minutes

✗ B. 12 hours 45 minutes

✓ C. 13 hours 45 minutes

✗ D. 13 hours 30 minutes

Q.24 If $x = 3 + \sqrt{6}$ and $y = 3 - \sqrt{6}$ then the value of $x^2 + y^2$ is:

Ans

✗ A. 36

✗ B. 25

✗ C. 70

✓ D. 30

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Q.25 Study the given table and answer the question that follows.
The given table shows data regarding bats produced by different companies. The companies produce plastic and wooden bats.
Information about plastic bats is given as the percentage of the total number of bats produced,
and that of wooden bats is given as the ratio of the number of bats of brand X to that of brand Y.
Each company produces a total of 25,000 bats.

Name of the company	Plastic bats (%)	Wooden bats X : Y
A	55.	21 : 4
B	70.	8 : 7
C	45.	6 : 19
D	75.	41 : 14
E	60.	7 : 15
F	40.	5 : 6

What is the ratio of wooden bats of brand Y manufactured by company C to the total number of wooden bats manufactured by companies A and F?

Ans
- ✔ A. 209 : 525
- ✘ B. 125 : 872
- ✘ C. 870 : 433
- ✘ D. 430 : 613

Q.26 **A number when divided by 798 leaves 45 as remainder. If the same number is divided by 21, what will be the remainder?**

Ans
- ✘ A. 2
- ✘ B. 5
- ✔ C. 3
- ✘ D. 4

Q.27 **Vaishali and Vanya invest in a business in the ratio 35 : 8. If total profit is Rs. 3655, then what is difference between the profit (in Rs.) of Vaishali and Vanya?**

Ans
- ✔ A. 2295
- ✘ B. 2345
- ✘ C. 2395
- ✘ D. 2195

Q.28 **Three partners invested in a business in the ratio 7:2:5. They invested their capitals for 11 months, 7 months and 12 months, respectively. What was the ratio of their profits?**

Ans
- ✘ A. 79:14:60
- ✔ B. 77:14:60
- ✘ C. 78:14:60
- ✘ D. 76:14:60

Q.29 **The average of 7 numbers is 45. If each number is decreased by 4, what will the new average be?**

Ans
- ✔ A. 41
- ✘ B. 37
- ✘ C. 45
- ✘ D. 7

Q.30 **A vendor claims to sell wheat at a loss of 25%. But he cheats by using weights that weigh 35% less than what is mentioned on them. What is his profit percentage (rounded off to 2 decimal places)?**

Ans
- ✘ A. 19.85
- ✘ B. 20.31
- ✔ C. 15.38
- ✘ D. 14.41

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Q.31 **Bhanu covers 790 km in a boat in 30 hours against the stream and he takes 12 hours with the stream then find the speed of the stream?**

Ans

✗ A. 28.05 km/h

✓ B. 19.75 km/h

✗ C. 23.95 km/h

✗ D. 15.59 km/h

Q.32 **A sphere of radius 3 cm is put into water contained in a cylinder with a base radius of 12 cm. If the sphere is completely immersed in the water, the water level in the cylinder rises by:**

Ans

✓ A. $\frac{1}{4}$ cm

✗ B. 3 cm

✗ C. $\frac{1}{3}$ cm

✗ D. 4 cm

Q.33 **Given that $137^{0.42} = x$, $137^{0.62} = y$ and $x^z = y^2$, then the value of z is close to:**

Ans

✓ A. 2.95

✗ B. 4.66

✗ C. 2.8

✗ D. 4.37

Q.34 **If at same rate of interest, in 2 years, the simple interest is ₹60 and compound interest is ₹63, then what is the principal (in ₹)?**

Ans

✓ A. 300

✗ B. 293

✗ C. 295

✗ D. 304

Q.35 **Given that $26^{0.89} = x$, $26^{0.31} = y$ and $x^z = y^2$, then the value of z is close to:**

Ans

✗ A. 1.33

✗ B. 2.47

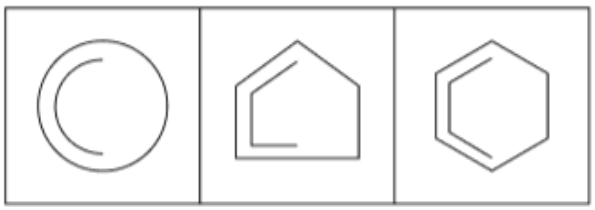
✗ C. -0.41

✓ D. 0.7

Section : **General Intelligence and Reasoning**

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Q.36



Ans

✗ A.



✗ B.



✓ C.



✗ D.



Q.37 **Three of the following four letter-clusters are alike in a certain way and thus form a group. Which is the letter-cluster that does NOT belong to that group?**
(Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)

Ans

✗ A. AXVP

✗ B. ROMG

✓ C. BYVQ

✗ D. VSQK

Q.38 **Which numbers should come in place of the question marks (?) in the same sequence to make the series logically complete?**
86 90 99 115 140 ? 225 ?

Ans

✗ A. 192, 323

✗ B. 168, 193

✓ C. 176, 289

✗ D. 182, 293

Q.39 **If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 3647582, how many digits will appear more than once in the new number thus formed?**

Ans

✓ A. 2

✗ B. 3

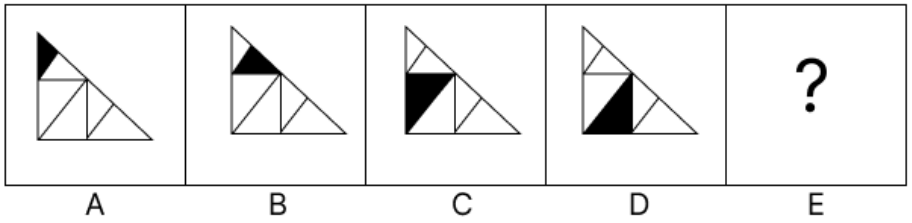
✗ C. 1

✗ D. 0

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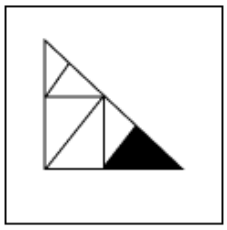
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Q.40

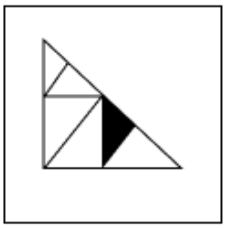


Ans

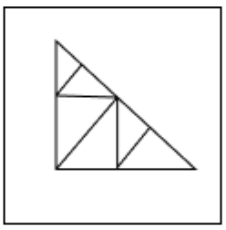
✗ A.



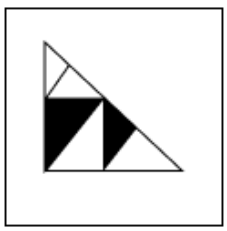
✓ B.



✗ C.



✗ D.



Q.41 **Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of ::?**
: BDF :: GIK : %

Ans

✗ A. # = WYB, % = LNP

✓ B. # = WYA, % = LNP

✗ C. # = XYA, % = LNP

✗ D. # = WYA, % = LNO

Q.42 **A, B, C, D, E, F and G sit around a circular table facing centre. Only two people sit between F and D when counted from the right of F. Only three people sit between B and G when counted from the right of G. D sits to the immediate right of G. A sits to the immediate right of E. How many people sit between A and G when counted from the right of G?**

Ans

✓ A. 2

✗ B. 1

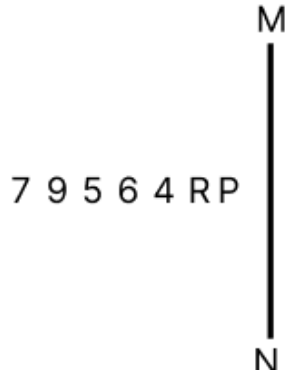
✗ C. 3

✗ D. 4

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Q.43



Ans

✔ A. ٧ ٩ ٥ ٤ ٦ ٩ ٦

✘ B. ٧ ٩ ٥ ٤ ٦ ٩ ٦

✘ C. RP ٤ ٥ ٥ ٩ ٧

✘ D. ٧ ٩ ٥ ٤ ٩ ٩ ٦

Q.44 **Rohit starts from Point A and drives 5 km towards East. He then takes a left turn, drives 2 km, turns right and drives 4 km. He then takes a right turn and drives 2 km. He takes a final right turn, drives 1 km and stops at Point B. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degree turns only unless specified.)**

Ans

✔ A. 8 km towards West

✘ B. 8 km towards North

✘ C. 5 km towards East

✘ D. 5 km towards West

Q.45 **Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number result(s) in the second number. Similarly, certain mathematical operation(s) on the second number result(s) in the third number and so on. Which of the given options follows the same set of operations as in the given sets? (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting / multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)**
1 - 2 - 4 - 8 ; 9 - 10 - 20 - 40

Ans

✔ A. 4 - 5 - 10 - 20

✘ B. 6 - 7 - 14 - 30

✘ C. 19 - 20 - 20 - 30

✘ D. 14 - 15 - 30 - 40

Q.46 **Refer to the following letter, symbol series and answer the question that follows. Counting to be done from left to right only.**

(Left) L U * P @ D £ A Ω F $ * N Q & R # Y % C K & M (Right)

If all the letters are dropped from the series, which of the following will be sixth from the right?

Ans

✘ A. Ω

✔ B. $

✘ C. &

✘ D. %

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Q.47 This question is based on the following words.
YEN ARE FEW GOT
In each of the words, each vowel is changed to the letter following it in the English alphabetical order and each consonant is changed to the letter preceding it in the English alphabetical order. In how many letter-clusters thus formed, will no vowel appear?

Ans
- ✔ A. 4
- ✘ B. 3
- ✘ C. 1
- ✘ D. 2

Q.48 Seven people, Q, R, S, T, U, V and Y, are sitting around a circular table facing the centre of the table. Only one person sits between U and Q when counted from the left of Q. S sits fourth to the left of T. V sits third to the left of R. V sits to the immediate left of S. Y is not an immediate neighbour of V. How many people sit between Y and Q when counted from the right of Y?

Ans
- ✘ A. Two
- ✔ B. Three
- ✘ C. Four
- ✘ D. One

Q.49 Tushar starts from Point A and drives 15 km towards south. He then takes a right turn, drives 13 km, turns right and drives 19 km. He then takes a right turn and drives 18 km. He takes a final right turn, drives 4 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degrees turns only unless specified)

Ans
- ✔ A. 5 km to the west
- ✘ B. 4 km to the west
- ✘ C. 3 km to the west
- ✘ D. 6 km to the west

Q.50 Each letter in the word BEHALF is changed to the letter immediately succeeding it in the English alphabetical order and then all the letters thus formed are arranged in alphabetical order. Which of the following letters will be fourth from the left in the new group of letters thus formed?

Ans
- ✘ A. M
- ✔ B. G
- ✘ C. F
- ✘ D. C

Q.51 Refer to the following letter, symbol series and answer the question. Counting to be done from left to right only.
(Left) @ 8 $ 7 & + 2 & % 4 6 * £ 5 3 Ω 9 # 1 (Right)
How many such symbols are there each of which is immediately preceded by a number and also immediately followed by another number?

Ans
- ✔ A. 3
- ✘ B. 4
- ✘ C. 1
- ✘ D. 2

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Q.52 Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?

(Note: The odd man out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans
- ✗ A. LNQ
- ✓ B. SUZ
- ✗ C. CEH
- ✗ D. PRU

Q.53 A $ B means 'A is the sister of B',
A @ B means 'A is the daughter of B',
A - B means 'A is the son of B' and
A * B means 'A is the father of B'.
Based on the above information, which of the following means that S is the sister's son of M?

Ans
- ✓ A. S - T $ E @ A * M
- ✗ B. S @ T - E $ A * M
- ✗ C. S $ T * E - A @ M
- ✗ D. S * T - E $ A @ M

Q.54 Each of the digits in the number 8374516 is arranged in ascending order from left to right. What will be the sum of the digits that are second from the left and second from the right in the new number thus formed?

Ans
- ✗ A. 11
- ✓ B. 10
- ✗ C. 14
- ✗ D. 12

Q.55 G, L, O, F and S each has a different age. Only S is elder than G. Only two people is aged between G and O. F is younger than L. Who is the third youngest?

Ans
- ✗ A. O
- ✗ B. F
- ✓ C. L
- ✗ D. G

Q.56 UVW ranked 21st from the top and 64th from the bottom in his class. How many students are there in his class?

Ans
- ✗ A. 88
- ✗ B. 78
- ✗ C. 81
- ✓ D. 84

Q.57 In a certain code language, 'EARS' is coded as '5273' and 'DIAL' is coded as '4631'. What is the code for 'A' in the given code language?

Ans
- ✓ A. 3
- ✗ B. 6
- ✗ C. 2
- ✗ D. 4

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Q.58 **Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.**

IEU GHQ ? CNI AQE

Ans

✗ A. ELN

✗ B. EJL

✓ C. EKM

✗ D. ELM

Q.59 **Three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which is the letter-cluster pair that does NOT belong to that group?**
(Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)

Ans

✗ A. ME - IN

✓ B. KC - GM

✗ C. OG - KP

✗ D. QI - MR

Q.60 **In a certain code language,**

'A + B' means 'A is the daughter of B',
'A – B' means 'A is the brother of B',
'A x B' means 'A is the wife of B' and
'A ÷ B' means 'A is the father of B'.

How is W related to Y if 'W + E x R – T ÷ Y'?

Ans

✗ A. Mother's brother's daughter

✗ B. Father's brother's wife

✗ C. Mother's brother's wife

✓ D. Father's brother's daughter

Q.61 **Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusion(s) logically follow(s) from the statements.**

Statements:
All jeans are trousers.
All trousers are pants.
No pant is a tie.

Conclusions:
(I) No jeans is a tie.
(II) No trouser is a tie.

Ans

✗ A. Neither conclusion (I) nor (II) follows.

✗ B. Only conclusion (I) follows.

✓ C. Both conclusions (I) and (II) follow.

✗ D. Only conclusion (II) follows.

Q.62 **In a certain code language, 'love conquers all' is coded as 'lk mp jo' and 'all or nothing' is coded as 'ap tu mp'. How is 'all' coded in the given language?**

Ans

✗ A. jo

✗ B. tu

✓ C. mp

✗ D. ap

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Q.63 Seven boxes, A, B, C, D, E, F and G, are kept one over the other but not necessarily in the same order. G is kept immediately above E. F is kept immediately above D. Only A is kept above B. Only two boxes are kept above G. F is not kept at third position from the bottom. How many boxes are kept above F?

Ans
- ✔ A. 5
- ✘ B. 2
- ✘ C. 3
- ✘ D. 4

Q.64 Select the term from among the given options that can replace the question mark (?) in the following series.

FLA 29 IJE 22 ? OFM 2 RDQ -11

Ans
- ✔ A. LHI 13
- ✘ B. HGG 12
- ✘ C. GKJ 11
- ✘ D. LVG 10

Q.65 What will come in the place of the question mark (?) in the following equation, if '−' and '÷' are interchanged and '×' and '+' are interchanged?

14 + 32 − 8 × 5 ÷ 2 = ?

Ans
- ✘ A. 57
- ✔ B. 59
- ✘ C. 58
- ✘ D. 56

Q.66 In a certain code language, 'learn from mistakes' is coded as 'lm tu bp' and 'from here on' is coded as 'mp tw bp'. How is 'from' coded in the given language?

Ans
- ✔ A. bp
- ✘ B. tw
- ✘ C. tu
- ✘ D. lm

Q.67 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
(27, 46, 19)
(8, 17, 9)

Ans
- ✘ A. (23, 39, 13)
- ✔ B. (22, 40, 18)
- ✘ C. (44, 70, 23)
- ✘ D. (18, 43, 22)

Q.68 Navin ranked 19th from the bottom and 18th from the top in his class. How many students are there in his class?

Ans
- ✘ A. 34
- ✔ B. 36
- ✘ C. 33
- ✘ D. 35

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Q.69 **Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of ::?**

: JLO :: GIL : %

Ans

✔ A. # = EGJ; % = LNQ

✘ B. # = FGJ; % = LNQ

✘ C. # = EGJ; % = LNO

✘ D. # = EGI; % = LNQ

Q.70 **Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of :: ?**

: PRW :: JLQ : %

Ans

✔ A. # = RTY, % = HJO

✘ B. # = LPY, % = HJM

✘ C. # = LKY, % = HMJ

✘ D. # = RKJ, % = HMJ

Section : **General Awareness**

Q.71 **Who among the following reinterpreted verses from the Koran to argue for women's education?**

Ans

✔ A. Mumtaz Ali

✘ B. Begum Anis Kidwai

✘ C. Bibi Amtus Salam

✘ D. Baji Jamalunnisa

Q.72 **In January 2024, India had decided to formally join the Square Kilometer Array (SKA) project, an international scientific collaboration working to build the world's largest _____.**

Ans

✘ A. optical telescope

✔ B. radio telescope

✘ C. particle accelerator

✘ D. space station

Q.73 **Who became the first Indian woman to win two gold medals at the Paralympic Games after winning a gold medal at Paris Paralympic Games 2024?**

Ans

✘ A. Rubina Francis

✘ B. Deepthi Jeevanji

✔ C. Avani Lekhara

✘ D. Simran Sharma

Q.74 **Which of the following Acts regulates the acquisition of Indian Citizenship?**

Ans

✘ A. Indian Citizenship Act, 1947

✔ B. Indian Citizenship Act, 1955

✘ C. Indian Citizenship Act, 1948

✘ D. Indian Citizenship Act, 1960

Q.75 **Which of the following is the correct definition of jobless growth?**

Ans

✘ A. It is an economic phenomenon in which an economy experiences low level of employment in a relative term.

✘ B. It is an economic phenomenon in which an economy experiences decreasing level of growth.

✔ C. It is an economic phenomenon in which an economy experiences growth while maintaining or decreasing its level of employment.

✘ D. It is an economic phenomenon in which an economy experiences decreasing level of employment.

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Q.76 **The stone used for the construction of the Basilica of Bom Jesus in Goa was brought from which of the following places?**

Ans
- ✔ A. Bassein
- ✘ B. Jaipur
- ✘ C. Hamirpur
- ✘ D. Gaya

Q.77 **Which of the following types of forests has trees that are mainly scattered with long roots and succulent stems?**

Ans
- ✘ A. Mangrove Forests
- ✘ B. Tropical Deciduous Forests
- ✔ C. Tropical Thorn Forests and Scrubs
- ✘ D. Montane Forests

Q.78 **Which of the following methods is most commonly used nowadays to determine nitrogen and protein content in foods?**

Ans
- ✘ A. Paradkar method
- ✘ B. Nessler's method
- ✔ C. Kjeldahl method
- ✘ D. Barfoed method

Q.79 **The group of North Atlantic Treaty Organization (NATO) has how many member countries, as on 30 September 2024?**

Ans
- ✘ A. 21
- ✘ B. 39
- ✘ C. 12
- ✔ D. 32

Q.80 **What significant change was implemented in India's New Economic Policy of 1991 to expand privatisation?**

Ans
- ✘ A. Centralising government control over key industries
- ✔ B. Reducing the list of industries reserved for public sector control
- ✘ C. Establishing more Public Sector Undertakings (PSUs) across various sectors
- ✘ D. Increasing the number of industries reserved for public sector control

Q.81 **Which of the following musical forms is intimately related to classical Carnatic music?**

Ans
- ✘ A. Firdost
- ✘ B. Bhand Pather
- ✔ C. Gitam
- ✘ D. Wanvun

Q.82 **How many subjects are there in the 'Union List' as of May 2024?**

Ans
- ✘ A. 97 subjects
- ✘ B. 98 subjects
- ✘ C. 66 subjects
- ✔ D. 100 subjects

Q.83 **Which of the following statements is FALSE about the Deccan Plateau?**

Ans
- ✘ A. The Eastern Ghats stretch from the Mahanadi Valley to the Nigiris in the south.
- ✔ B. Mahendragiri is the highest peak in the Western Ghats.
- ✘ C. The height of the Western Ghats progressively increases from north to south.
- ✘ D. The Western Ghats are higher than the Eastern Ghats.

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Q.84 **In which of the following years was the Ethics Committee in the Rajya Sabha constituted?**

Ans

✗ A. 1995

✗ B. 1999

✓ C. 1997

✗ D. 2000

Q.85 **Who among the following was a classical Hindustani singer?**

Ans

✗ A. TK Iyengar

✗ B. V Sheshanna

✓ C. Begum Akhtar

✗ D. MS Subbulakshmi

Q.86 **Which of the following has built the Atal Tunnel?**

Ans

✗ A. Pradhan Mantri Gram Sadak Yojana

✗ B. National Highways Authority of India (NHAI)

✗ C. 3. Indian Railways

✓ D. Border Roads Organisation

Q.87 **Which of the following kings of the Vijayanagara Empire assumed the title of Yavanarajya Sthapanacharya?**

Ans

✗ A. Achyuta Deva Raya

✗ B. Sadasiva Raya

✗ C. Rama Raya

✓ D. Krishnadevaraya

Q.88

Match the following correctly.

	Set-I		Set-II
a.	Panini	1.	Maalvikagnimitram
b.	Hala	2.	Mahabhashya
c.	Kalidas	3.	Ashtadhyayi
d.	Patanjali	4.	Gaathasaptshati

Ans

✗ A. a - 4; b - 3; c - 2; d - 1

✗ B. a - 2; b - 3; c - 4; d - 1

✓ C. a - 3; b - 4; c - 1; d - 2

✗ D. a - 3; b - 4; c - 2; d - 1

Q.89 **Which of the following issues has been faced by India since independence?**

Ans

✓ A. Poverty

✗ B. Agriculture productivity

✗ C. Globalisation

✗ D. Literacy

Q.90 **Which of the following is the correct function of marketed surplus?**

Ans

✗ A. Marketed Surplus = Total demand in the market - Total supply

✗ B. Marketed Surplus = Total farm produce - Previous years stock in the market

✓ C. Marketed Surplus = Total farm output produced by the farmer - Own consumption of farm output

✗ D. Marketed Surplus = Total supply of the market - Total demand

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Q.91 **N Chandrababu Naidu, who took oath as Andhra Pradesh Chief Minister on 12 June 2024, belongs to which of the following political parties?**

Ans
- ✗ A. Jana Sena Party (JSP)
- ✓ B. Telugu Desam Party (TDP)
- ✗ C. Bhartiya Janata Party (BJP)
- ✗ D. YSR Congress Party (YSRCP)

Q.92 **_____ is a natural source of acetic acid.**

Ans
- ✗ A. Tamarind
- ✓ B. Vinegar
- ✗ C. Tomato
- ✗ D. Orange

Q.93 **A nutrient which acts as a cushion to the vital organs and protects them from shocks and external injuries is:**

Ans
- ✗ A. carbohydrate
- ✗ B. vitamin
- ✗ C. protein
- ✓ D. fat

Q.94 **Which of the following was the original name of Sher Shah Suri, the founder of Suri dynasty?**

Ans
- ✗ A. Ulugh khan
- ✗ B. Murtaza Khan
- ✗ C. Adham Khan
- ✓ D. Farid Khan

Q.95 **Joint military exercise 'Harimau Shakti-2022' commenced on 28th November, which is an annual training event between the Indian Army and which of the following armies?**

Ans
- ✗ A. Indonesia
- ✗ B. Japan
- ✓ C. Malaysia
- ✗ D. Singapore

Q.96 **Who among the following was NOT associated with the Hindustan Republican Association (H.R.A.)?**

Ans
- ✓ A. Subhash Chandra Bose
- ✗ B. Sachindra Nath Bakshi
- ✗ C. Ashfaqulla Khan
- ✗ D. Ram Prasad Bismil

Q.97 **Name the main method used for thickening sauces and in the production of bread and pastries.**

Ans
- ✓ A. Gelatinisation
- ✗ B. Retrogradation
- ✗ C. Dextrinisation
- ✗ D. Caramelisation

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Q.98 **The KAZA 2024, Heads of State inaugural Summit by Members of the five-nation Kavango-Zambezi Trans-Frontier Conservation Area (KAZA-TFCA) was held in which month at Livingstone, Zambia?**

Ans

✗ A. July 2024

✗ B. April 2024

✓ C. May 2024

✗ D. August 2024

Q.99 **Which of the following was the strength of the Judges of Supreme Court of India after the commencement of the Constitution in 1950?**

Ans

✗ A. 12

✗ B. 6

✓ C. 8

✗ D. 10

Q.100 **In which of the following years was the Satya Shodhak Samaj founded?**

Ans

✗ A. 1794

✓ B. 1873

✗ C. 1776

✗ D. 1885

Q.101 **Which of the following is NOT one of the new criminal laws introduced in 2024?**

Ans

✗ A. Bharatiya Sakshya Adhiniyam (BSA)

✓ B. Indian Penal Code (IPC)

✗ C. Bharatiya Nagarik Suraksha Sanhita (BNSS)

✗ D. Bharatiya Nyaya Sanhita (BNS)

Q.102 **In which of the following years was the National Commission for Women established?**

Ans

✓ A. 1992

✗ B. 2004

✗ C. 1991

✗ D. 1985

Q.103 **Which of the following Union Territories of India is having the highest decadal growth rate of population as per 2011 census?**

Ans

✓ A. Dadar and Nagar Haveli

✗ B. Lakshadweep

✗ C. Puducherry

✗ D. Chandigarh

Q.104 **Arrange the following rulers of the Pala dynasty in the chronological order.**

Ans

✗ A. Devpal < Dharampal < Mahipal < Naypal

✗ B. Mahipal < Dharampal < Devpal < Naypal

✗ C. Mahipal < Dharampal < Naypal < Devpal

✓ D. Dharampal < Devpal < Mahipal < Naypal

Q.105 **In June 2024, which of the following portfolios was allotted to Anitha Vangalapudi in the Andhra Pradesh Cabinet?**

Ans

✗ A. Minister of Information Technology and Communication of Andhra Pradesh

✗ B. Minister of Panchayat Raj and Rural Development of Andhra Pradesh

✗ C. Deputy Chief Minister of Andhra Pradesh

✓ D. Home Minister of Andhra Pradesh

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Q.106 **In February 2024, Genome India Project was completed. Which of the following statements is NOT true about Genome India Project?**

Ans

✗ A. The project was funded and coordinated by the Department of Biotechnology, Govt. of India.

✗ B. It was initiated in 2020.

✗ C. The aim was to build a reference genome and study genetic diversity among Indians.

✓ D. 1 million genome samples were to be collected across the country from citizens of India.

Q.107 **The right-hand rule of induced current was given by:**

Ans

✗ A. Faraday

✓ B. Fleming

✗ C. Oersted

✗ D. Ampere

Q.108 **Which of the following is NOT provided in Part IV A (Fundamental Duties) of the Indian Constitution?**

Ans

✗ A. To preserve the rich heritage of our composite culture

✗ B. To promote spirit of brotherhood amongst all people of India

✗ C. To respect the National Flag

✓ D. To respect our parents and teachers

Q.109 **An optical instrument used in a system of prisms, lenses or mirrors to reflect images through a tube is called:**

Ans

✗ A. telescope

✗ B. kaleidoscope

✓ C. periscope

✗ D. binocular

Q.110 **The 130th birth anniversary of Satyendra Nath Bose was observed on 1 January 2024. He was a renowned _____.**

Ans

✓ A. physicist

✗ B. botanist

✗ C. zoologist

✗ D. literary

Q.111 **Who among the following wrote the autobiography 'Ardhakathanak'?**

Ans

✗ A. Narmad

✗ B. Rassundari Devi

✗ C. Valmiki

✓ D. Banarasidas

Q.112 **Which of the following census years reported the highest sex ratio in India?**

Ans

✓ A. 1901

✗ B. 1991

✗ C. 2011

✗ D. 1951

Q.113 **In which of the following years did the government sell its stake in IRCON International Limited?**

Ans

✗ A. 2021

✓ B. 2023

✗ C. 2015

✗ D. 2018

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Q.114 Which of the following ports is NOT correctly linked to its location?

Ans

✔ A. Visakhapatnam Port - Telangana

✘ B. Kochi Port - Kerala

✘ C. Tuticorin Port - Tamil Nadu

✘ D. Mormugao Port - Goa

Q.115 How do rural development programmes like the Self-Help Group (SHG) initiative contribute to gender equality in rural India?

Ans

✘ A. Primarily through educational programmes

✔ B. By enhancing women's access to finance, leadership roles and decision-making

✘ C. By providing women with employment opportunities only

✘ D. Solely by improving agricultural productivity

Q.116 Which of the following river systems is responsible for the formation of the Sundarbans delta?

Ans

✘ A. Sindhu

✘ B. Cauvery

✔ C. Ganga-Brahmaputra-Meghna

✘ D. Godavari

Q.117 In which of the following ways can the utility be expressed in cardinal utility analysis?

Ans

✘ A. In rank

✔ B. In numbers

✘ C. In order

✘ D. In quality

Q.118 The Constitution ensures the security of the tenure of the Chief Election Commissioner and Election Commissioners. They are appointed for _____ years term or continue till the age of 65, whichever is earlier.

Ans

✘ A. 5

✔ B. 6

✘ C. 4

✘ D. 10

Q.119 Who were India's flag-bearers at the Paris 2024 Paralympics closing ceremony?

Ans

✔ A. Harvinder Singh and Preethi Pal

✘ B. Bhagyashree Jadhav and Sumit Antil

✘ C. Avani Lekhara and Nishad Kumar

✘ D. Manish Narwal and Yogesh Kathuniya

Q.120 Where was the joint bilateral training 'Exercise Harimau Shakti 2023' conducted?

Ans

✘ A. Kota Kinabalu, Malaysia

✘ B. New Delhi, India

✘ C. Kuala Lumpur, Malaysia

✔ D. Umroi Cantonment, India

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रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS

सी ई एन आर पी एफ - ०१/२०२४ - CEN RPF - 01/2024

Test Date	09/12/2024
Test Time	4:00 PM - 5:30 PM
Subject	RRB RPF SI 2024

*** Note**
Correct Answer will carry 1 mark per Question.
Incorrect Answer will carry 1/3 Negative mark per Question.

1. Options shown in green color with a tick icon are correct.

Section : **Arithmetic**

Q.1 $\frac{(a^1 \times b^4 \times c^5)}{(a^3 \times b^6 \times c^9)}$ in simplified form is:

Ans
- ✗ A. $(a^8) \times (b^5) \times (c^{-1})$
- ✗ B. $(a^7) \times (b^{-7}) \times (c^{-6})$
- ✗ C. $(a^{-5}) \times (b^{-8}) \times (c^2)$
- ✓ D. $(a^{-2}) \times (b^{-2}) \times (c^{-4})$

Q.2 **A wholesaler purchases goods worth ₹45,000. The manufacturer offers a trade discount of 15% and an additional scheme discount of 10%. Calculate the net price after both discounts.**

Ans
- ✗ A. ₹34,255
- ✗ B. ₹34,225
- ✗ C. ₹34,455
- ✓ D. ₹34,425

Q.3 **The selling price of 50 books is equal to the cost price of 25 books. Find the loss or gain percentage.**

Ans
- ✗ A. $\frac{100}{25}\% \; loss$
- ✓ B. 50 % loss
- ✗ C. 50 % gain
- ✗ D. $\frac{100}{25}\% \; gain$

Q.4 **The LCM of 24, 38, 336 and 152 is:**

Ans
- ✗ A. 6353
- ✗ B. 6362
- ✗ C. 6410
- ✓ D. 6384

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Q.5 The population of a village was 130000. It increased by 10% in the first year and increased by 20% in the second year. Its population after two years is _____.

Ans

✗ A. 143000

✗ B. 169000

✓ C. 171600

✗ D. 156000

Q.6 A sum, when invested at 20% simple interest per annum, amounts to ₹2880 after 4 years. What is the simple interest (in ₹) on the same sum at the same rate in 2 year?

Ans

✗ A. 320

✗ B. 2560

✓ C. 640

✗ D. 1280

Q.7 Manav's average earning per month in the first three months of a year was ₹7520. In April, his earning was 75% more than the average earning in the first three months. If his average earning per month for the whole year is ₹62334, then what will be Manav's average earning (in ₹) per month from May to December?

Ans

✗ A. 89031

✗ B. 89034

✓ C. 89036

✗ D. 89039

Q.8 The smallest 1-digit number to be added to the 6-digit number 950473 so that it is completely divisible by 11 is:

Ans

✗ A. 1

✓ B. 4

✗ C. 2

✗ D. 6

Q.9 Two trains of equal length are running on parallel lines in the same direction at speeds of 66 km/h and 39 km/h. The faster train passes the slower train in 24 seconds. The length of each train is:

Ans

✗ A. 89 meters

✓ B. 90 meters

✗ C. 110 meters

✗ D. 72 meters

Q.10 A person covers certain distance in 6 hours at a speed of 5 km/h and some more distance in 7 hours at a speed of 9 km/h. Find his average speed for the entire distance covered.

Ans

✗ A. $6\frac{2}{13}$

✗ B. $9\frac{2}{13}$

✓ C. $7\frac{2}{13}$

✗ D. $8\frac{2}{13}$

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Q.11 **The average of 7 numbers is 53. If each number is increased by 7, what will the new average be?**

Ans

✗ A. 67

✗ B. 7

✓ C. 60

✗ D. 53

Q.12 The surface area of a solid metallic sphere is 5544 cm^2. It is melted an

Ans

✗ A. 46 cm

✓ B. 42 cm

✗ C. 44 cm

✗ D. 40 cm

Q.13 **Given that $42^{0.66}$ = x, $42^{0.65}$= y and $x^z = y^4$, then the value of z is close to:**

Ans

✗ A. 2.04

✗ B. 4.92

✓ C. 3.94

✗ D. 4.81

Q.14 $\frac{2}{7}+\frac{19}{5}-2.4+\left(\frac{4.8}{2.4}\right)^2$

Ans

✗ A. $\frac{131}{35}$

✗ B. $\frac{119}{35}$

✗ C. $\frac{101}{35}$

✓ D. $\frac{199}{35}$

Q.15 **Three partners invested in a business in the ratio 6:7:3. They invested their capitals for 8 months, 3 months and 10 months, respectively. What was the ratio of their profits?**

Ans

✗ A. 14:7:10

✓ B. 16:7:10

✗ C. 17:7:10

✗ D. 13:7:10

Q.16 **The price of fuel decreases by 20%, 45% and 55% in three successive months, but increases by 50% in the fourth month. What is the percentage increase/decrease in the price of fuel in the fourth month as compared to its original price?**

Ans

✗ A. Decreases by 68.29%

✗ B. Increases by 67.55%

✗ C. Increases by 72.35%

✓ D. Decreases by 70.3%

Q.17 **The average of 7 numbers is 51. If each number is increased by 6, what will the new average be?**

Ans

✗ A. 51

✗ B. 7

✗ C. 63

✓ D. 57

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Q.18 Given that $17^{0.63} = x$, $17^{0.04} = y$ and $x^z = y^4$, then the value of z is close to:

Ans

✗ A. -0.45

✗ B. -0.79

✗ C. 2.08

✓ D. 0.25

Q.19 Find the value of $\left[(54 \div 6) \times \left\{\frac{70}{7} + \frac{38}{6} \times (8 - 2)\right\}\right]$

Ans

✗ A. 422

✗ B. 429

✗ C. 442

✓ D. 432

Q.20 $0.\overline{093} + 0.\overline{23}$

Ans

✗ A. $\frac{343}{990}$

✗ B. $\frac{343}{999}$

✓ C. $\frac{323}{990}$

✗ D. $\frac{323}{999}$

Q.21 The average weight of 6 men is increased by 2 kg when one of them whose weight is 48 kg is replaced by a new man. What is the weight of the new man?

Ans

✓ A. 60 kg

✗ B. 58 kg

✗ C. 56 kg

✗ D. 54 kg

Q.22 If x varies inversely as $y^3 - 1$ and is equal to 3 when y = 4, find x when y = 6.

Ans

✗ A. $\frac{190}{216}$

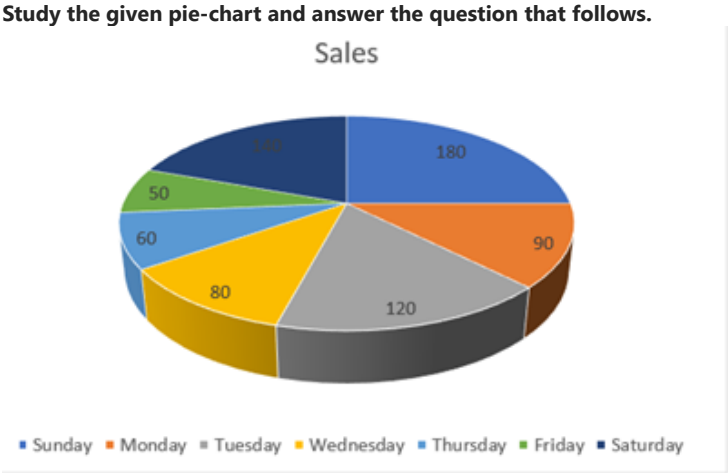
✗ B. $\frac{189}{216}$

✓ C. $\frac{189}{215}$

✗ D. $\frac{191}{215}$

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Q.23 **The pie-chart shows the sales of an item on different days of a week. Study the given pie-chart and answer the question that follows.**



The difference in angles made at the centre by the sales on Tuesday and Saturday is (in degrees):

Ans

✗ A. 5

✗ B. 20

✓ C. 10

✗ D. 0

Q.24 **Pranjal's average earning per month in the first three months of a year was ₹28744. In April, his earning was 50% more than the average earning in the first three months. If his average earning per month for the whole year is ₹94411, then what will be Pranjal's average earning (in ₹) per month from May to December?**

Ans

✗ A. 125447

✗ B. 125453

✓ C. 125448

✗ D. 125446

Q.25 **If the volume of cube is 1728 m^3, then find the total surface area of cube in m^2.**

Ans

✗ A. 901

✗ B. 910

✗ C. 861

✓ D. 864

Q.26 *The difference between the smallest and the largest fractions among* $\frac{8}{8}, \frac{6}{6}, \frac{26}{39}, \frac{29}{31}$ *is:*

Ans

✗ A. $\frac{1}{2}$

✗ B. $\frac{1}{6}$

✓ C. $\frac{1}{3}$

✗ D. $\frac{1}{8}$

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Q.27 **A man sold an article for ₹420 by first giving a d% discount on its marked price, and then another discount having the same nominal value (in ₹). If the marked price of the article is ₹560, then what is the value of d?**

Ans

✗ A. 14.5

✗ B. 16.9

✓ C. 12.5

✗ D. 18.4

Q.28 Find the gain percentage, given that Bushra sold her scooter for ₹591

Ans

✗ A. 10%

✗ B. 5%

✓ C. 20%

✗ D. 35%

Q.29 A cylinder of height 13 cm is made from a rectangular sheet of dimens closed from both ends? (Use $\pi = \frac{22}{7}$)

Ans

✗ A. 1. 220 cm^2

✗ B. 2. 1280 cm^2

✗ C. 3. 440 cm^2

✓ D. 4. 880 cm^2

Q.30 **A bank offers 5.6% compound interest per annum calculated on a half-yearly basis. A customer deposits ₹7346 each on 1 January and 1 July of a year. At the end of the year, the amount he would have gained by way of interest is _____. [Give your answer correct to 2 decimal places.]**

Ans

✗ A. ₹626.14

✗ B. ₹612.82

✓ C. ₹622.82

✗ D. ₹616.68

Q.31 **A man walks to a viewpoint and returns to the starting point by his car maintaining constant speed and thus takes a total time of 8 hours 30 minutes. He would have gained 5 hours by driving both ways. How long would it have taken for him to walk both ways with same walking speed?**

Ans

✓ A. 13 hours 15 minutes

✗ B. 14 hours 30 minutes

✗ C. 12 hours 15 minutes

✗ D. 13 hours 45 minutes

Q.32 **Parvati and Pari invest in a business in the ratio 5 : 26. If total profit is Rs. 3038, then what is difference between the profit (in Rs.) of Parvati and Pari?**

Ans

✓ A. 2058

✗ B. 2008

✗ C. 1958

✗ D. 2208

Q.33 **What will be the remainder when $(99^{99} + 99)$is divisible by 100?**

Ans

✗ A. 99

✗ B. 96

✗ C. 97

✓ D. 98

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Q.34 Sakshi invested a sum of ₹2500 at 20% per annum compound interest, componded annually. If she received an amount of ₹4320 after n years, the value of n is:

Ans
- ✗ A. 2
- ✗ B. 4
- ✗ C. 3.5
- ✓ D. 3

Q.35 A train runs at a speed of 147 kmph to cover a distance of 294 km and then at a speed of 133 kmph to cover a distance of 266 km. Find the average speed of the train for the entire distance.

Ans
- ✗ A. 187 kmph
- ✗ B. 152 kmph
- ✗ C. 132 kmph
- ✓ D. 140 kmph

Section : **General Intelligence and Reasoning**

Q.36 In a certain code language,
A < B means 'A is the son of B',
A + B means 'A is the father of B',
A ; B means ' A is the sister of B',
and A = B means 'A is the daughter of B'.

How is P related to E if 'P + O < S ; T = E'?

Ans
- ✗ A. Sister's son
- ✗ B. Father's sister
- ✓ C. Daughter's husband
- ✗ D. Mother's sister

Q.37 Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?

(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans
- ✗ A. BCE
- ✗ B. STV
- ✗ C. PQS
- ✓ D. MOR

Q.38 Seven people, E, F, G, H, I, J and U, are sitting around a circular table facing the centre of the table. Only one person sits between H and E when counted from the right of H. Only one person sits between E and U. Only one person sits between H and I. J sits third to the right of I. Only one person sits between F and I. Who sits second to the right of G?

Ans
- ✗ A. I
- ✗ B. U
- ✓ C. J
- ✗ D. E

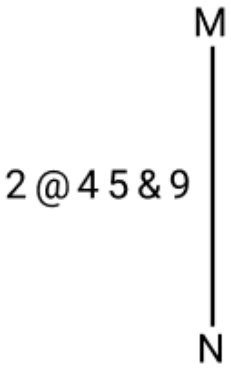
Q.39 Three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which is the letter-cluster pair that does NOT belong to that group?
(Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)

Ans
- ✓ A. FB - ZE
- ✗ B. PL - JM
- ✗ C. VR - PS
- ✗ D. NJ - HK

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Q.40



Ans

✔ A. ϱ&ƨ4@Ƨ

✗ B. ϱ&ƨ4Ƨ@

✗ C. 5&9ㅓ@Ƨ

✗ D. ϱ8Ƽㅓ@Ƨ

Q.41 **This question is based on the five, three-digit numbers given below.**

(Left) 431 649 324 163 719 (Right)

(Example- 697 – First digit = 6, second digit = 9 and third digit = 7)

NOTE: All operations to be done from left to right.

What will be the resultant if the third digit of the lowest number is added to the second digit of the highest number?

Ans

✗ A. 7

✗ B. 5

✔ C. 4

✗ D. 6

Q.42 **Select the set in which the numbers are related in the same way as are the numbers of the following sets.**
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(1, −2, 2)
(24, 24, 12)

Ans

✗ A. (24, 6, 22)

✔ B. (18, 26, 5)

✗ C. (15, 10, 11)

✗ D. (34, 22, 24)

Q.43 **Each of the digits in the number 8213459 is arranged in ascending order from left to right. The position(s) of how many digits will remain unchanged as compared to that in the original number?**

Ans

✗ A. Four

✗ B. Three

✗ C. One

✔ D. Two

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Q.44 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

HEC JGE LIG NKI ?

Ans

✗ A. PML

✗ B. PNK

✗ C. PNL

✓ D. PMK

Q.45 Each of P, Q, R, S, T, U and V has an exam on a different day of a week starting from Monday and ending on Sunday of the same week.
Only two people have exam between R and V. U has an exam on Tuesday. P has an exam on the day immediately before V and immediately after U. S has an exam on Monday. T has an exam on the day before R and the day after Q. Q has an exam on Friday.
Who amongst the following has exam on Wednesday?

Ans

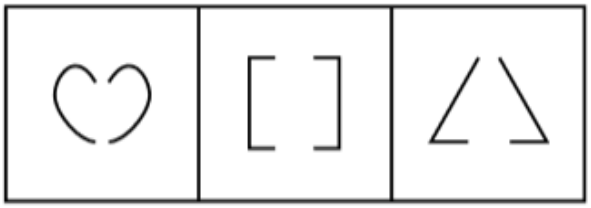
✗ A. R

✓ B. P

✗ C. T

✗ D. V

Q.46

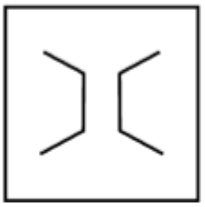


Ans

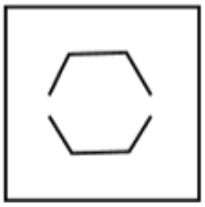
✗ A.



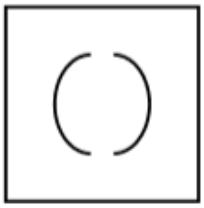
✗ B.



✗ C.



✓ D.



Q.47 TUV ranked 16th from the top and 19th from the bottom in his class. How many students are there in his class?

Ans

✗ A. 23

✗ B. 43

✗ C. 32

✓ D. 34

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Q.48 **Mr. NOP starts from point A and drives 11 km towards West. He then takes a left turn, drives 12 km, turns left and drives 31 km. He then takes a left turn and drives 27 km. He takes a final left turn, drives 20 km and stops at point P. How far (shortest distance) and towards which direction should he drive in order to reach point A again? (All turns are 90 degrees turns only unless specified.)**

Ans

✗ A. 11 km to the East

✗ B. 9 km to the North

✗ C. 13 km to the West

✓ D. 15 km to the South

Q.49 **In a certain code language, 'CUTE' is coded as '8479' and 'TRIP' is coded as '4351'. What is the code for 'T' in that language?**

Ans

✗ A. 3

✗ B. 7

✗ C. 5

✓ D. 4

Q.50 **Which numbers should come in place of the question mark (?) in the same sequence to make the series logically complete?**

73 82 100 127 ? 208

Ans

✗ A. 152

✗ B. 143

✓ C. 163

✗ D. 138

Q.51 **P, Q, R, S and T are all different ages. Q is older than R. R is younger than T but older than P. S is the oldest. Who among them is the youngest?**

Ans

✗ A. S

✗ B. R

✓ C. P

✗ D. T

Q.52 **What should come in place of the question mark (?) in the given series based on the English alphabetical order?**

DCA EDB FEC GFD ?

Ans

✗ A. MNL

✓ B. HGE

✗ C. MOL

✗ D. KLJ

Q.53 **EHSM is related to AMOR in a certain way based on the English alphabetical order. In the same way, WRKW is related to SWGB. To which of the given options is OBCG related to, following the same logic?**

Ans

✗ A. LGZN

✗ B. LHYM

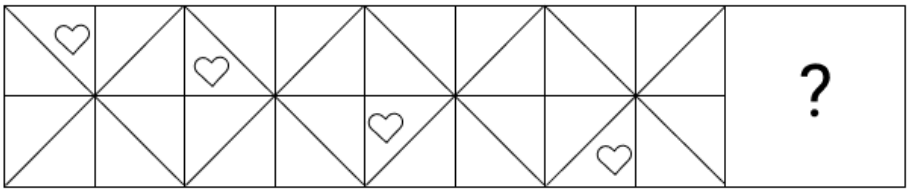
✓ C. KGYL

✗ D. JFXK

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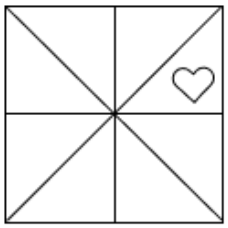
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Q.54

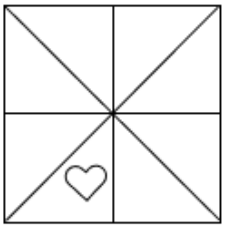


Ans

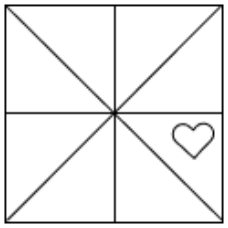
✗ A.



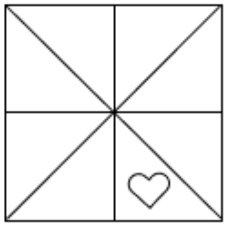
✗ B.



✗ C.



✓ D.



Q.55 **A is the sister of B's daughter C. K is the father of C, and L is the father of K. How is A related to L?**

Ans

✗ A. Daughter's daughter

✗ B. Son's son

✗ C. Son's wife

✓ D. Son's daughter

Q.56 **In a certain code language, 'he is late' is coded as 'ab bc cd' and 'is she alive' is coded as 'kj cd mo'. How is 'is' coded in the given language?**

Ans

✓ A. cd

✗ B. ab

✗ C. de

✗ D. mo

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Q.57 **Refer to the following letter, symbol series and answer the question that follows. Counting to be done from left to right only.**

(Left) = S Y # G F & A % K E * D C & £ U @ N > B + L M (Right)

How many such symbols are there each of which are immediately preceded by a letter and also immediately followed by another symbol?

Ans

✔ A. One

✘ B. Three

✘ C. Two

✘ D. Four

Q.58 **This question is based on the five, three-digit numbers given below.**

(Left) 342 781 619 457 243 (Right)

(Example- 697 – First digit = 6, second digit = 9 and third digit = 7)
(NOTE: All operations to be done from left to right.)

If 2 is added to first digit of every number, in how many numbers will the first digit be exactly divisible by the second digit?

Ans

✘ A. 3

✘ B. 1

✔ C. 2

✘ D. 4

Q.59 **Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of ::?**

: XBE :: HLO : %

Ans

✘ A. # = TXA; % = LBS

✘ B. # = TXA; % = LPO

✔ C. # = TXA; % = LPS

✘ D. # = UXA; % = LPS

Q.60 **A, B, C, D, E, F and G sit around a circular table facing centre. Only E sits between G and C. C sits third to the left of B. A sits to the immediate left of B. D is not an immediate neighbour of C. How many people sit between D and E when counted from the right of E?**

Ans

✘ A. 1

✘ B. 3

✔ C. 4

✘ D. 2

Q.61 **Select the set in which the numbers are related in the same way as are the numbers of the following sets.**
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
(31, 951, 10)
(29, 837, 4)

Ans

✘ A. (27, 717, 11)

✔ B. (33, 1069, 20)

✘ C. (4, 8, 7)

✘ D. (40, 1593, 6)

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Q.62 Seven boxes, G, H, I, J, K, L and V, are kept one over the other but not necessarily in the same order. H is kept immediately above G. L is kept immediately above J. Only K is kept above V. Only two boxes are kept between G and K. L is not kept at third position from the bottom. How many boxes are kept between I and K?

Ans

✔ A. Three

✘ B. Two

✘ C. Four

✘ D. One

Q.63 Based on the English alphabetical order, three of the following four letter cluster pairs are alike in a certain way and thus form a group. Which is the one that DOES NOT belong to that group?

Ans

✔ A. OJ : NH

✘ B. NI : LG

✘ C. JE : HC

✘ D. HC : FA

Q.64 Refer to the following letter, symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) L T # K % & D R @ $ F $ P Q * ! A Ω E Y % U £ K (Right)

How many such symbols are there each of which are immediately preceded by a letter and also immediately followed by another symbol?

Ans

✘ A. One

✔ B. Three

✘ C. Two

✘ D. None

Q.65 In a certain code language, 'AWED' is coded as '2764' and 'DATE' is coded as '7625'. What is the code for 'T' in that language?

Ans

✘ A. 6

✔ B. 5

✘ C. 7

✘ D. 2

Q.66 Manish starts from Point A and drives 13 km towards South. He then takes a left turn, drives 11 km, turns left and drives 15 km. He then takes a left turn and drives 12 km. He takes a final left turn, drives 2 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degree turns only unless specified.)

Ans

✘ A. 1 km to the west

✘ B. 2 km to the east

✔ C. 1 km to the east

✘ D. 2 km to the west

Q.67 What will come in the place of the question mark '?' in the following equation, if '+' and '−' are interchanged and '×' and '÷' are interchanged?
38 − 8 ÷ 2 + 9 − 12 ÷ 3 − 16 × 2 = ?

Ans

✘ A. 73

✔ B. 89

✘ C. 107

✘ D. 99

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Q.68 **Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.**
Statements:
All fans are lights.
All lights are clocks.
Some clocks are bulbs.
Conclusions:
(I): Some fans are bulbs.
(II): Some lights are bulbs.

Ans
- ✗ A. Only conclusion (II) follows.
- ✓ B. Neither conclusion (I) nor (II) follows.
- ✗ C. Both conclusions (I) and (II) follow.
- ✗ D. Only conclusion (I) follows.

Q.69 **Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of :: ?**

: GEJ :: RPU : %

Ans
- ✗ A. # = JHF, % = MKJ
- ✓ B. # = LJO, % = MKP
- ✗ C. # = PIO, % = MIU
- ✗ D. # = POO, % = MLK

Q.70 **If 2 is added to each even digit and 1 is subtracted from each odd digit in the number 9361457, what will be the sum of the second digit from the left and the third digit from the right in the new number thus formed?**

Ans
- ✗ A. 10
- ✓ B. 8
- ✗ C. 12
- ✗ D. 6

Section : **General Awareness**

Q.71 **The signatories of the Poona Pact were the Mahatma Gandhi Group and the _____.**

Ans
- ✗ A. Sardar Vallabhbhai Patel Group
- ✗ B. Subhas Chandra Bose Group
- ✓ C. Dr. BR Ambedkar Group
- ✗ D. Jawaharlal Nehru Group

Q.72 **According to the Indian Meteorological Department (IMD), how many seasons are there in India?**

Ans
- ✗ A. 7
- ✓ B. 4
- ✗ C. 6
- ✗ D. 3

Q.73 **Who is the Chairperson of NITI Aayog?**

Ans
- ✓ A. Prime Minister
- ✗ B. President
- ✗ C. Home Minister
- ✗ D. Vice-President

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Q.74 **The synthetic auxin 2,4-D is commonly used as a _____.**

Ans

✔ A. herbicide

✘ B. defense hormone

✘ C. stress hormone

✘ D. signalling hormone

Q.75 **Who among the following wrote the book 'Significance of Vimanam and Gopuram'?**

Ans

✘ A. Niketan Anand Gaur

✘ B. Sashi Tharoor

✔ C. Dr. V Ganapati Sthapati

✘ D. Romila Thapar

Q.76 **As per the Indian Constitution, who among the following is considered as the chief aid and advisor of the Governor of a State?**

Ans

✘ A. Chief Justice of the High Court

✘ B. Advocate General

✘ C. Chief Secretary

✔ D. Chief Minister of the State

Q.77 **The Delimitation Commission is appointed by the _____ and works in collaboration with the Election Commission of India.**

Ans

✔ A. President of India

✘ B. Chief Justice of India

✘ C. Lok Sabha Speaker

✘ D. Prime Minister of India

Q.78 **What was the role of Nayakas under the Amara-Nayaka system of Vijayanagar administration?**

Ans

✔ A. Army Commander

✘ B. Head of the Spies

✘ C. Village Head

✘ D. Revenue Collector

Q.79 **Which equation demonstrates that electricity, magnetism and light are all manifestations of the electromagnetic field?**

Ans

✔ A. Maxwell's equation

✘ B. Kirchhoff's equation

✘ C. Ohm's equation

✘ D. Laplace equation

Q.80 **Which of the following is/are food as well as fodder crops grown under semi-arid climatic conditions sown all over India except in eastern and northeastern regions?**

Ans

✘ A. Cotton

✘ B. Areca nut

✘ C. Pulses

✔ D. Maize

Q.81 **Which of the following universities is acclaimed as the 'Oxford of Mahayanism'?**

Ans

✘ A. Vikramshila

✘ B. Taxila

✘ C. Vallabhi

✔ D. Nalanda

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Q.82 **Who among the following renowned musicians is celebrated for popularising the unique instrument known as the 'Sarod' and is considered one of the most famous maestros of the Senia Shahjahanpur gharana?**

Ans

✗ A. Ustad Bismillah Khan

✓ B. Ustad Amjad Ali Khan

✗ C. Ustad Ali Akbar Khan

✗ D. Pandit Ravi Shankar

Q.83 **_____ has won the National Award for the best implementation of Pradhan Mantri Fasal Bima Yojana (PMFBY), which is a crop subsidy insurance scheme, for the year 2022-23?**

Ans

✗ A. Uttar Pradesh

✓ B. Karnataka

✗ C. Tamil Nadu

✗ D. Punjab

Q.84 **What is the name of the United Nations specialised agency for Information and Communication Technologies (ICTs), which has released the 5th edition of Global Cybersecurity Index (GCI) in 2024?**

Ans

✗ A. United Nations World Communication Union

✗ B. World Telecommunication Union

✓ C. International Telecommunication Union

✗ D. Global Telecommunication Union

Q.85 Match the states in list I with the sex ratios as per Census 2011 in list II.

	State (List-I)		Sex Ratio (as per Census 2011) (List-II)
1.	Uttar Pradesh	a.	931
2.	Bihar	b.	918
3.	Madhya Pradesh	c.	929
4.	Maharashtra	d.	912

Ans

✗ A. 1-d, 2-b, 3-c, 4-a

✗ B. 1-d, 2-a, 3-b, 4-c

✓ C. 1-d, 2-b, 3-a, 4-c

✗ D. 1-b, 2-d, 3-a, 4-c

Q.86 **Which of the following is NOT one of the recent initiatives of the Government of India to generate opportunities of employment?**

Ans

✗ A. Make in India

✗ B. Start Up India

✗ C. Skill India

✓ D. Unicorn India

Q.87 **Which of the following is the first stage of karyokinesis of mitosis that follows the S and G2 phases of interphase?**

Ans

✗ A. Metaphase

✓ B. Prophase

✗ C. Anaphase

✗ D. Telophase

Q.88 **Delhi Sultanate signifies the rule over India with capital as Delhi, of which community?**

Ans

✗ A. Arabian

✗ B. Persian

✗ C. African

✓ D. Turkish

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Q.89 **Which of the following statements is NOT correct about 'Globalisation'?**

Ans

✗ A. It helps to create borderless world

✗ B. It encourages flows of investment, people and information

✗ C. It is the process of interaction and integration among people

✓ D. It helps in alleviating problems and increased sustainable development benefits

Q.90 **How many amino acids out of the 22 needed by the human body, are NOT produced in the human body?**

Ans

✗ A. 14

✓ B. 8

✗ C. 12

✗ D. 16

Q.91 **In which year did King George V and Queen Mary of Britain visit India, and the announcement regarding the transfer of India's capital from Calcutta (Kolkata) to Delhi take place?**

Ans

✓ A. 1911

✗ B. 1901

✗ C. 1858

✗ D. 1908

Q.92 **In August 2023, the Defence Ministry of India decided to switch its operating system from Windows to a locally built OS amid rising trends in cyberthreats. The name of the new OS is _____.**

Ans

✗ A. Survekshan

✗ B. Megh

✗ C. Surakshakavach

✓ D. Maya

Q.93 **Which of the following articles deals with the power of the President to make regulations for certain Union territories?**

Ans

✓ A. Article 240

✗ B. Article 235

✗ C. Article 248

✗ D. Article 244

Q.94 **The Hindustan Aeronautics Limited handed over the first twin-seater Light Combat Aircraft 'Tejas' to the Indian Air Force in the year _____.**

Ans

✗ A. 2018

✗ B. 2024

✗ C. 2014

✓ D. 2023

Q.95 **The Indian Pharmacopoeia Commission (IPC) issued a drug safety alert in December 2023 advising healthcare professionals and patients to monitor adverse reactions to 'Meftal', which has _____ properties**

Ans

✗ A. antihistamine

✓ B. antipyretic

✗ C. antipruritic

✗ D. antacid

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Q.96 **Who among the following was the first Indian woman to become the President of Indian National Congress?**

Ans

✗ A. Annie Besant

✓ B. Sarojini Naidu

✗ C. Madam Bhikaji Cama

✗ D. Nelli Sengupta

Q.97 **Mopin Festival is celebrated in which state of India?**

Ans

✗ A. Uttar Pradesh

✓ B. Arunachal Pradesh

✗ C. Rajasthan

✗ D. Haryana

Q.98 **Which of the following statements regarding Fundamental Rights is/are NOT CORRECT?**

1. Fundamental Rights are described in Articles 12 to 36 in Part-3 of the Constitution.
2. This part is called the Magna Carta of India.
3. Their objective is to create a government of law in the country and not of individuals.
4. These are not absolute; the state can impose reasonable restrictions on them.

Ans

✓ A. Only 1 and 3

✗ B. Only 3 and 4

✗ C. Only 1

✗ D. Only 1 and 4

Q.99 **Which musical instrument is commonly associated with Rajasthani folk music?**

Ans

✗ A. Tabla

✗ B. Dholak

✓ C. Morchang

✗ D. Shehnai

Q.100 **What is the role of the Experts Advisory Committee (EAC) in the implementation of the Startup India Seed Fund Scheme (SISFS)?**

Ans

✗ A. Disbursing funds directly to startups

✗ B. Monitoring the performance of startups receiving funding

✗ C. Approving individual startup funding requests

✓ D. Evaluating and selecting incubators for fund allocation

Q.101 **In which sport did Indian player Nitesh Kumar win a gold medal at the Paris Paralympic Games 2024?**

Ans

✗ A. Athletics

✓ B. Badminton

✗ C. Archery

✗ D. Shooting

Q.102 **Which government programme in India aims at eradicating poverty through employment generation in rural areas?**

Ans

✗ A. Pradhan Mantri Awas Yojana (PMAY)

✗ B. National Food Security Act (NFSA)

✓ C. Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA)

✗ D. National Rural Health Mission (NRHM)

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Q.103 **Which of the following is NOT one of Kepler's laws of planetary motion?**

A. The orbit of each planet around the Sun is an ellipse with the Sun at one of the two foci.
B. The orbits of all planets around the Sun are coplanar.
C. A line segment joining a planet and the Sun sweeps out equal areas during equal intervals of time.
D. The square of the orbital period of a planet is directly proportional to the cube of the semi-major axis of its orbit.

Ans
- ✔ A. B
- ✘ B. C
- ✘ C. A
- ✘ D. D

Q.104 **The efficient market hypothesis (EMH) is foundational to the Capital Asset Pricing Model (CAPM). To test the validity of the EMH, one can examine whether historical data contradicts CAPM. If historical data were to contradict CAPM, which of the following would this imply about the efficient market hypothesis?**

Ans
- ✘ A. It would imply that the historical data is irrelevant to market efficiency.
- ✔ B. It would imply that the market is inefficient.
- ✘ C. It would imply that CAPM is infallible.
- ✘ D. It would imply that the market is always efficient.

Q.105 **Which of the following countries rejoined the UNESCO in July 2023 and became its 194th member?**

Ans
- ✘ A. India
- ✘ B. United Kingdom
- ✘ C. Iran
- ✔ D. United States of America

Q.106 **In December 2023, Revanth Reddy became the Chief Minister of which state?**

Ans
- ✔ A. Telangana
- ✘ B. Madhya Pradesh
- ✘ C. Chhattisgarh
- ✘ D. Karnataka

Q.107 **Which scheme is focussed on promoting entrepreneurship among SC/STs and women by providing loans at concessional rates?**

Ans
- ✘ A. MUDRA Yojana
- ✘ B. Stand-Up India Scheme
- ✘ C. Pradhan Mantri Rozgar Yojana (PMRY)
- ✔ D. Startup India

Q.108 **Which house of the parliament has the most powers in matters of Money bills?**

Ans
- ✘ A. Vidhan Sabha
- ✘ B. Vidhan Parishad
- ✘ C. Rajya Sabha
- ✔ D. Lok Sabha

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Q.109 **Arrange the following rivers in the ascending order based on the size of their basins:**

Godavari,
Krishna,
Mahanadi,
Ganga.

Ans

✗ A. Ganga > Mahanadi > Godavari > Krishna

✗ B. Ganga > Krishna > Mahanadi > Godavari

✗ C. Ganga > Mahanadi > Krishna > Godaveri

✓ D. Ganga > Godavari > Krishna > Mahanadi

Q.110 **Who among the following was appointed as the Governor of Chitor after Akbar invaded it in 1567?**

Ans

✗ A. Maan Singh

✓ B. Asaf Khan

✗ C. Adham Khan

✗ D. Bairam Khan

Q.111 **What is the name of the half humanoid robot that India is planning to launch in space before the actual human mission Gaganyaan to test flight criticalities?**

Ans

✓ A. Vyommitra

✗ B. Gaganmaitri

✗ C. Antariksha vicharak

✗ D. Nabhmitra

Q.112 **According to Census of India 2011, how many states recorded less than 10 lakhs population?**

Ans

✗ A. Three

✗ B. Zero

✗ C. Two

✓ D. One

Q.113 **The Vande Bharat Express is made in which country?**

Ans

✗ A. England

✗ B. Korea

✓ C. India

✗ D. Japan

Q.114 **In September 2024, who among the following launched the Jan Sunwai Portal of the Department of Commerce, designed to streamline communication between stakeholders and authorities?**

Ans

✓ A. Piyush Goyal

✗ B. Chetanya Kasyap

✗ C. Bimal Borah

✗ D. Krishna Kumar Vishnoi

Q.115 **Which of the following Fundamental Duties was added by the 42nd Constitutional Amendment, 1976?**

Ans

✗ A. To safeguard private property

✗ B. Amend the Constitution and its ideals

✗ C. To work for the country

✓ D. To uphold and protect the harmony and the spirit of common brotherhood amongst all the people of India

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Q.116 **How many members of Rajya Sabha are nominated by the President of India?**

Ans

✔ A. 12

✘ B. 14

✘ C. 10

✘ D. 08

Q.117 **El Nino is a narrow warm current which occasionally appears off the coast of _____.**

Ans

✘ A. Australia

✘ B. Uganda

✘ C. Brazil

✔ D. Peru

Q.118 **The acid present in the cells of our body is _____.**

Ans

✘ A. ribonucleic acid

✘ B. oxalic acid

✔ C. deoxyribonucleic acid

✘ D. sulphuric acid

Q.119 **Which initiative has been introduced in DISC 12 to foster the development of medical technologies for the Armed Forces in 2024?**

Ans

✘ A. ADITI

✘ B. AIM

✘ C. iDEX

✔ D. MIRA

Q.120 **Which Indian table tennis player won her maiden international title in the women's singles event at the WTT Feeder Corpus Christi 2024 in Texas, USA, in January 2024?**

Ans

✘ A. Manika Batra

✔ B. Sreeja Akula

✘ C. Sutirtha Mukherjee

✘ D. Ankita Das

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रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS

सी ई एन आर पी एफ - ०१/२०२४ - CEN RPF - 01/2024

Test Date	12/12/2024
Test Time	9:00 AM - 10:30 AM
Subject	RRB RPF SI 2024

*** Note**
Correct Answer will carry 1 mark per Question.
Incorrect Answer will carry 1/3 Negative mark per Question.

1. Options shown in green color with a tick icon are correct.

Section : **Arithmetic**

Q.1 **The smallest 1-digit number to be added to the 6-digit number 497094 so that it is completely divisible by 11 is:**

Ans
- ✗ A. 8
- ✗ B. 6
- ✓ C. 7
- ✗ D. 4

Q.2 **A shopkeeper lists the price of a fan at 60% above its cost price and offers a 30% discount on its list price. If he earns a profit of ₹60, then what is the list price (in ₹) of the fan?**

Ans
- ✗ A. 873
- ✓ B. 800
- ✗ C. 1021
- ✗ D. 824

Q.3 **If a 1092 m long train crosses a pole in 52 seconds, then find the time (in seconds) taken by the train to cross a 294 m long platform.**

Ans
- ✗ A. 61
- ✗ B. 60
- ✓ C. 66
- ✗ D. 63

Q.4 **Raghu completes his journey in 20 hours. He covers half the distance at 27 km/h and the rest at 54 km/h. What is the length of the journey (in Km)?**

Ans
- ✓ A. 720
- ✗ B. 710
- ✗ C. 712
- ✗ D. 728

Q.5 **The population of a village was 140000. It increased by 5% in the first year and increased by 20% in the second year. Its population after two years is _____.**

Ans
- ✗ A. 147000
- ✗ B. 168000
- ✓ C. 176400
- ✗ D. 175000

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Q.6 **The smallest natural number which is divisible by 14, 42, 54 and 6 is:**

Ans

✗ A. 384

✓ B. 378

✗ C. 298

✗ D. 458

Q.7 **The price of fuel decreases by 25%, 60% and 10% in three successive months, but increases by 60% in the fourth month. What is the percentage increase/decrease in the price of fuel in the fourth month as compared to its original price?**

Ans

✓ A. Decreases by 56.79%

✗ B. Decreases by 59.51%

✗ C. Increases by 61.02%

✗ D. Increases by 59.84%

Q.8 **Two trains of equal length are running on parallel lines in the same direction at speeds of 40 km/h and 22 km/h. The faster train passes the slower train in 40 seconds. The length of each train is:**

Ans

✗ A. 90 meters

✗ B. 82 meters

✓ C. 100 meters

✗ D. 114 meters

Q.9 **Isha and Anshu together invested ₹44000 in a business. At the end of the year, out of a total profit of ₹8800, Isha's share was ₹1100. What was the investment of Anshu?**

Ans

✗ A. ₹38110

✗ B. ₹37420

✓ C. ₹38500

✗ D. ₹40115

Q.10 **A number when divided by 576 gives remainder 75. If the same number is divided by 24, then find the remainder.**

Ans

✓ A. 3

✗ B. 2

✗ C. 4

✗ D. 1

Q.11 **A shopkeeper marks an article at ₹x and offers a discount of 40% on it. He sells it for ₹255 after charging VAT of 70% on the discounted price. What is the value of ₹ x?**

Ans

✗ A. ₹400

✗ B. ₹100

✗ C. ₹200

✓ D. ₹250

Q.12 **Find the value of** $\left[(28 \times 10) \times \left\{4 \div 4 \times \frac{(19 - 12)}{7}\right\}\right]$

Ans

✗ A. 275

✗ B. 298

✗ C. 266

✓ D. 280

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Q.13 During sale, Raghav bought a notebook marked for ₹100 at 77% discount and a pen marked for ₹100 at 16% discount. How much (in ₹) did he save due to sale?

Ans

✗ A. 92

✗ B. 95

✓ C. 93

✗ D. 91

Q.14 Pramod sold 171 chairs and had a gain equal to the selling price of 57 chairs. What is his profit percentage?

Ans

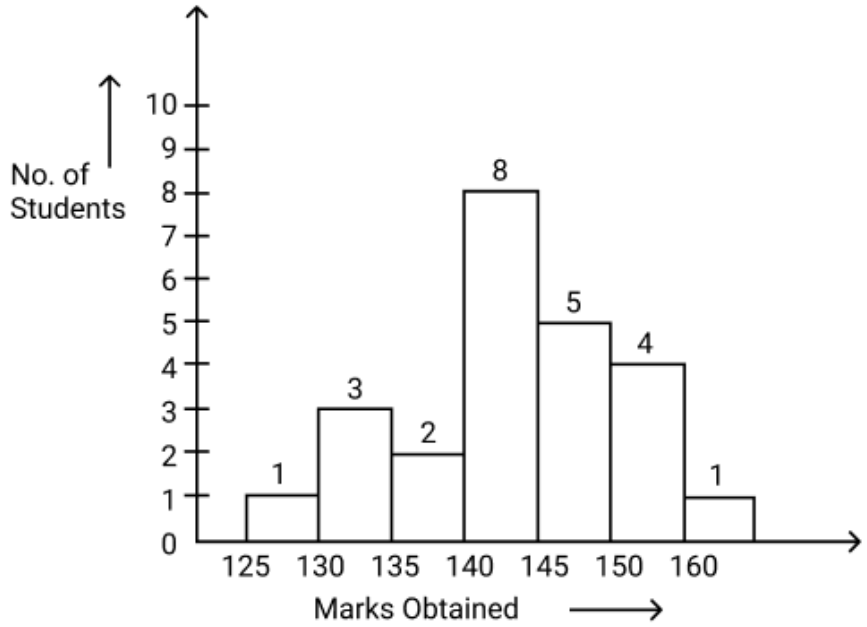
✗ A. 60%

✗ B. 55%

✗ C. 45%

✓ D. 50%

Q.15 Observe the graph and answer the following question.



How many students obtained marks more than 135?

Ans

✓ A. 18

✗ B. 14

✗ C. 12

✗ D. 16

Q.16 A bank offers 6.8% compound interest per annum calculated on a half-yearly basis. A customer deposits ₹4879 each on 1 January and 1 July of a year. At the end of the year, the amount he would have gained by way of interest is _____. [Give your answer correct to 2 decimal places.]

Ans

✗ A. ₹524.58

✗ B. ₹513.29

✗ C. ₹521.27

✓ D. ₹503.29

Q.17 In what ratio must Suhail, a wholesaler, mix wheat worth ₹45 per kg with wheat worth ₹75 per kg, so that by selling the mixture at ₹80 per kg, he may gain 25%?

Ans

✓ A. 11 : 19

✗ B. 11 : 17

✗ C. 13 : 17

✗ D. 13 : 19

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Q.18 If $29 \times 2 \times 742 \div \sqrt{2809} = y + 784$, then find the value of y.

Ans

✗ A. 36

✗ B. 35

✗ C. 26

✓ D. 28

Q.19 **The average price of three items of furniture is Rs 15960. If their prices are in the ratio 3:5:7, the price of the costliest item (in Rs) is**

Ans

✗ A. 7448

✗ B. 5320

✓ C. 22344

✗ D. 3192

Q.20 **Find the volume of a sphere whose surface area is 1386 cm^2.**

Ans

✓ A. 1. 4851 cm^2

✗ B. 2. 4726 cm^2

✗ C. 3. 4672 cm^2

✗ D. 4. 4518 cm^2

Q.21 **A person drove at 39 kmph for 3.5 hours, then increased his speed by 9 kmph, and reached the destination in another hour. Find the average speed (in kmph) of the person during the entire journey.**

Ans

✓ A. 41

✗ B. 47

✗ C. 43

✗ D. 45

Q.22 **If the average of the four consecutive odd numbers is 42, find the sum of the digits of the largest of these numbers.**

Ans

✗ A. 7

✗ B. 8

✓ C. 9

✗ D. 5

Q.23 **Find the circumference (in m) of the largest circle that can be inscribed in a rectangle whose dimensions are given as 112 m and 114 m.**

$take\ \pi = \frac{22}{7}$

Ans

✓ A. 352

✗ B. 350

✗ C. 347

✗ D. 354

Q.24 **The ratio of numbers of girls and boys participating in sports of a school is 1 : 5. If the number of girls is 247, determine the number of boys participating in the sports.**

Ans

✗ A. 1265

✓ B. 1235

✗ C. 1210

✗ D. 1255

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Q.25 **Parvati and Pari invest in a business in the ratio 7 : 15. If total profit is Rs. 1166, then what is difference between the profit (in Rs.) of Parvati and Pari?**

Ans

✗ A. 274

✗ B. 324

✗ C. 524

✓ D. 424

Q.26 **The smallest 1-digit number to be added to the 6-digit number 547363 so that it is completely divisible by 11 is:**

Ans

✗ A. 5

✗ B. 4

✓ C. 8

✗ D. 6

Q.27 **120 l of a mixture of milk and water contains 15% of water. How much water (in litres) should be added to the mixture to make the water content 25%?**

Ans

✗ A. 20

✓ B. 16

✗ C. 24

✗ D. 12

Q.28 **A conical tent has to accommodate 40 persons. Each person requires 5 m^2 space on the ground and 70 m^3 of air to breathe. Find the height (in m) of the tent (use π = 22/7).**

Ans

✗ A. 38

✓ B. 42

✗ C. 45

✗ D. 40

Q.29 If $13 \times 7 \times 686 \div \sqrt{2401} = y + 785$, then find the value of y.

Ans

✗ A. 499

✗ B. 488

✓ C. 489

✗ D. 498

Q.30 $0.12\overline{3} + 0.\overline{39}$

Ans

✗ A. $\frac{578}{1100}$

✓ B. $\frac{569}{1100}$

✗ C. $\frac{579}{1100}$

✗ D. $\frac{568}{1100}$

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Q.31 $5 \times \left(\frac{3}{4}\right) - 2 \times \left(\frac{1}{4}\right) - 3 \times \left(\frac{1}{4}\right) - \left(\frac{1}{4}\right)$

Ans

✗ A. $\frac{7}{4}$

✓ B. $\frac{9}{4}$

✗ C. $\frac{3}{4}$

✗ D. $\frac{5}{4}$

Q.32 **The area of a square plot is 961 m^2. The length of each side of the plot (in m) is:**

Ans

✗ A. 29

✗ B. 39

✗ C. 41

✓ D. 31

Q.33 **A bank offers 9.2% compound interest per annum calculated on a half-yearly basis. A customer deposits ₹2907 each on 1 January and 1 July of a year. At the end of the year, the amount he would have gained by way of interest is _____. [Give your answer correct to 2 decimal places.]**

Ans

✗ A. ₹417.31

✓ B. ₹407.31

✗ C. ₹395.33

✗ D. ₹399.22

Q.34 **The average of eight numbers is 20. The average of five of these numbers is 21. The average of the remaining three numbers is**

Ans

✓ A. 18.33

✗ B. 17.33

✗ C. 20.33

✗ D. 19.33

Q.35 **Find the simple interest (in ₹) on ₹2000 at 6.25% per annum rate of interest for the period from 12 February 2023 to 26 April 2023**

Ans

✗ A. 26

✗ B. 24

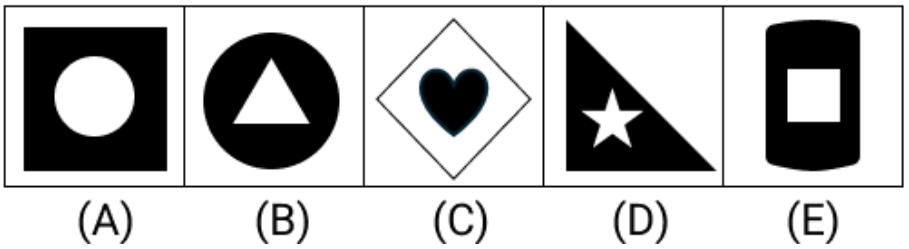
✗ C. 23

✓ D. 25

Section : **General Intelligence and Reasoning**

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Q.36 **Four of the following five figures are alike in a certain way and thus form a group. Which figure DOES NOT belong to that group?**



Ans
- ✗ A. B
- ✓ B. C
- ✗ C. D
- ✗ D. A

Q.37 **Seven people, A, B, C, D, E, F and G, are sitting in a row, facing north. Only five people sit between F and A. E sits to the immediate left of A. Only one person sits between E and B. G sits at some place to the left of D but at some place to the right of C. How many people sit between A and C?**

Ans
- ✗ A. 3
- ✓ B. 4
- ✗ C. 2
- ✗ D. 1

Q.38 **Each of P, Q, R, S, T, U and V go to market on a different day of a week starting from Monday and ending on Sunday of the same week.**
P goes to market on Wednesday. Exactly two people go to market between P and Q. Exactly three people go to market between Q and S. Exactly two people go to market between R and T. U goes to market on the day immediately after T. V goes to market on one of days after U.
Who goes to market on Thursday?

Ans
- ✗ A. S
- ✗ B. U
- ✗ C. V
- ✓ D. T

Q.39 **This question is based on the given words.**
VAN BUT ZIP DEW
If in each of the words, each letter is changed to the next letter in the English alphabetical order, how many words thus formed will have no vowel?

Ans
- ✗ A. Two
- ✗ B. Three
- ✓ C. Zero
- ✗ D. One

Q.40 **Three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which is the letter-cluster pair that does NOT belong to that group?**
(Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)

Ans
- ✗ A. QS - NP
- ✗ B. XZ - UW
- ✓ C. MN - KL
- ✗ D. JL - GI

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Q.41 **This question is based on the following words.**
CAR SHE BEG MUD
In each of the words, each vowel is changed to the letter following it in the English alphabetical order and each consonant is changed to the letter preceding it in the English alphabetical order. In how many letter-clusters thus formed, will no vowel appear?

Ans
✗ A. 4
✗ B. 2
✓ C. 3
✗ D. 1

Q.42 **Seven people, C, D, E, F, G, H and Z, are sitting in a row facing north. Only three people sit to the left of E. Only four people sit between H and D, neither of whom sits on the left end. C sits immediately to the left of G. Only three people sit between Z and D. How many people sit between F and G?**

Ans
✗ A. One
✓ B. Four
✗ C. Three
✗ D. Two

Q.43 **In a certain code language, 'HAZE' is coded as '8574' and 'HEAL' is coded as '1745'. What is the code for 'L' in that language?**

Ans
✗ A. 7
✓ B. 1
✗ C. 4
✗ D. 5

Q.44 **Ankit starts from point A and drives 11 km towards North. He then takes a left turn, drives 12 km, turns left and drives 14 km. He then takes a left turn and drives 14 km. He takes a final left turn, drives 3 km and stops at point P. How far (shortest distance) and towards which direction should he drive in order to reach point A again? (All turns are 90 degrees turns only unless specified.)**

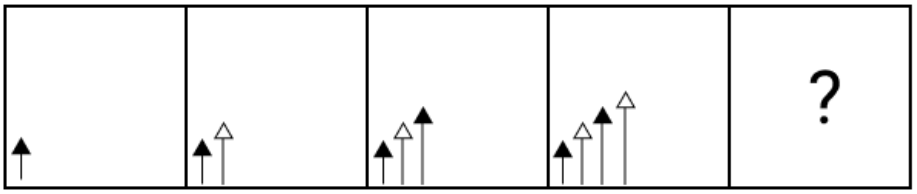
Ans
✗ A. 4 km to the West
✗ B. 3 km to the West
✓ C. 2 km to the West
✗ D. 1 km to the West

Q.45 **Each of P, Q, R, S, T, U and V has an exam on a different day of a week starting from Monday and ending on Sunday of the same week.**
Only two people have exam between S and V. U has an exam on Monday. Only P has an exam between U and S. V has an exam on the day immediately before T and the day immediately after R. Q has an exam on the day immediately before R.
Who amongst the following has an exam on Saturday?

Ans
✗ A. T
✓ B. V
✗ C. P
✗ D. R

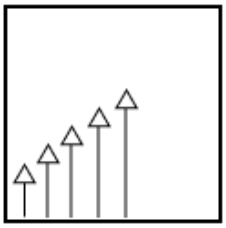
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Q.46

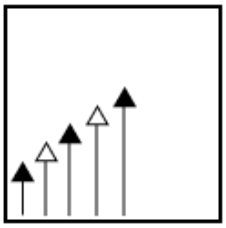


Ans

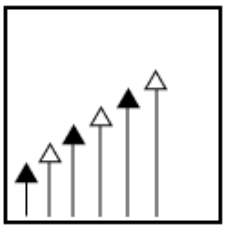
✗ A.



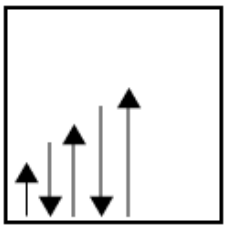
✓ B.



✗ C.



✗ D.



Q.47

M

@ 4 5 7 j K

N

Ans

✗ A. K j ⅂ ƨ ⊬ @

✗ B. K j ⅂ 4 5 @

✗ C. j K ⅂ ƨ ⊬ @

✓ D. K j ⅂ ƨ ⊬ @

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Q.48 Select the set in which the numbers are related in the same way as are the numbers of the following sets.
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
(19, 38, 114)
(14, 28, 84)

Ans
- ✔ A. (12, 24, 72)
- ✘ B. (15, 30, 85)
- ✘ C. (17, 34, 68)
- ✘ D. (16, 48, 96)

Q.49 In a certain code language, 'BULK' is coded as '5273' and 'KITE' is coded as '4612'. What is the code for 'K' in the given code language?

Ans
- ✘ A. 4
- ✔ B. 2
- ✘ C. 6
- ✘ D. 3

Q.50 Select the number from among the given options that can replace the question mark (?) in the following series.

24 88 137 173 ?

Ans
- ✘ A. 196
- ✘ B. 202
- ✔ C. 198
- ✘ D. 200

Q.51 Six people, named W, X, Y, Z, T and U, each are of different ages. The age of W is 30. The age of U is one-fourth the age of T. The age of Y is two times the age of X. The age of T is five times the age of Y. The age of W is two times the age of U. If the age of X is one-fourth the age of Z, what is the age of Z?

Ans
- ✘ A. 45
- ✘ B. 35
- ✘ C. 25
- ✔ D. 24

Q.52 Refer to the following letter, number and symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) C & T % 7 2 R G E * S D Y # 3 5 4 @ 6 K & (Right)

How many such symbols are there which are immediately preceded by a number and also immediately followed by a letter?

Ans
- ✘ A. 3
- ✔ B. 0
- ✘ C. 1
- ✘ D. 2

Q.53 If 'P' stands for '×', 'Q' stands for '÷', 'R' stands for '−' and 'S' stands for '+' , what will come in place of the question mark '?' in the following equation?
(32 Q 2) P 4 R 35 S (7 P 3) S 20 R 18 Q 3 =?

Ans
- ✔ A. 64
- ✘ B. 50
- ✘ C. 80
- ✘ D. 74

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Q.54 **In a certain code language,**

'A + B' means 'A is the daughter of B',
'A – B' means 'A is the brother of B',
'A x B' means 'A is the wife of B' and
'A ÷ B' means 'A is the father of B'.

How is W related to Y if 'W + E – R ÷ T x Y'?

Ans

✗ A. Wife's mother's brother's wife

✗ B. Wife's mother's brother's daughter

✓ C. Wife's father's brother's daughter

✗ D. Wife's father's brother's wife

Q.55 **Which of the following letter-clusters will replace the question mark (?) in the given series to make it logically complete?**

IDX 1 MGS –6 ? UMI –26 YPD –39

Ans

✗ A. WPS –11

✗ B. PLW –13

✗ C. PWX –9

✓ D. QJN –15

Q.56 **If 1 is added to each even digit and 1 is added to each odd digit in the number 2175648, what will be the sum of the first and last digits in the new number thus formed?**

Ans

✗ A. 9

✓ B. 12

✗ C. 7

✗ D. 10

Q.57 **Select the term from among the given options that can replace the question mark (?) in the following series.**

TUR 71 UQT 60 VMV 49 ? XEZ 27

Ans

✗ A. VIY 35

✗ B. UWX 32

✗ C. VJX 34

✓ D. WIX 38

Q.58 **In a certain code language, 'GASP' is coded as '8264' and 'TAPS' is coded as '8562'. What is the code for 'T' in that language?**

Ans

✗ A. 2

✗ B. 6

✓ C. 5

✗ D. 8

Q.59 **Select the triad that follows the same pattern as the one followed by the two triads given below. Both triads follow the same pattern.**

EA-HD-KN
GC-JF-MP

Ans

✗ A. IF-LH-OS

✗ B. IE-LH-OS

✗ C. IF-LG-OS

✓ D. IE-LH-OR

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Q.60 If 2 is added to each odd digit and 2 is subtracted from each even digit in the number 384571, what will be the sum of all even digits in the new number thus formed?

Ans

✔ A. 8

✘ B. 14

✘ C. 16

✘ D. 12

Q.61 A * B means ' A is the father of B',
A - B means 'A is the son of B',
A $ B means 'A is the sister of B' and
A @ B means 'A is the daughter of B'.
Based on the above information, which of the following means that D is the sister's daughter of R?

Ans

✘ A. D $ U * S - T @ R

✘ B. D * U @ S $ T - R

✘ C. D @ U - S * T $ R

✔ D. D @ U * S - T $ R

Q.62 MJ 18 is related to OF 2 in a certain way. In the same way, NE 11 is related to PA -5. To which of the following is SQ 1 related, following the same logic?

Ans

✔ A. UM -15

✘ B. UL -15

✘ C. VK -14

✘ D. VM -12

Q.63 Select the pair that follows the same pattern as that followed by the two pairs given below. Both pairs follow the same pattern.

KQR : OTT
SWV : WZX

Ans

✘ A. MBK : OGM

✔ B. ACZ : EFB

✘ C. CZP : FBQ

✘ D. QRL : TTM

Q.64 This question is based on the following words.

JAR CUT DIM FOG

If in each of the words, each letter is changed to the next letter in the English alphabetical order, how many words thus formed will have no vowel?

Ans

✘ A. 1

✘ B. 3

✘ C. 4

✔ D. 2

Q.65 Amit starts from Point A and drives 11 km towards North. He then takes a right turn, drives 9 km, turns right and drives 15 km. He then takes a right turn and drives 11 km. He takes a final right turn, drives 4 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degree turns only unless specified.)

Ans

✔ A. 2 km to the east

✘ B. 3 km to the west

✘ C. 2 km to the west

✘ D. 3 km to the east

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Q.66 **25 is related to 155 following a certain logic. Following the same logic, 20 is related to 125. To which of the following is 32 related, following the same logic?**
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting /multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

Ans
- ✔ A. 197
- ✘ B. 192
- ✘ C. 199
- ✘ D. 166

Q.67 **Based on the English alphabetical order, three of the following four letter cluster pairs are alike in a certain way and thus form a group. Which is the one that DOES NOT belong to that group?**

Ans
- ✘ A. KF : ID
- ✘ B. ID : GB
- ✘ C. DY : BW
- ✔ D. RM : OK

Q.68 **A, B, C, D, E and F live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it, number 2 and so on till the topmost floor is numbered 6. C lives on an even numbered floor but not 6. The sum of the floors on which B and C live is 7. A lives immediately above E. The sum of the floors on which C and F live is 3. How many people live between A and C?**

Ans
- ✘ A. 3
- ✔ B. 1
- ✘ C. 4
- ✘ D. 2

Q.69 **Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusion(s) logically follow(s) from the statements.**

Statements:
All spoons are forks.
All forks are jars.
Some jars are knives.

Conclusions:
(I) Some forks are knives.
(II) Some spoons are knives.

Ans
- ✘ A. Both conclusions (I) and (II) follow.
- ✘ B. Only conclusion (II) follows.
- ✔ C. Neither conclusion (I) nor (II) follows.
- ✘ D. Only conclusion (I) follows.

Q.70 **Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which pair DOES NOT belong to that group?**
(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster pair.)

Ans
- ✘ A. ID : GB
- ✘ B. NI : LG
- ✘ C. CX : AV
- ✔ D. QL : PJ

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Q.71 **Which of the following is the Keynesian approach to the degree of wage and price flexibility in the labour market?**

Ans

✗ A. Wages and prices are fully flexible.

✗ B. Wages are sticky but prices are flexible.

✓ C. Wages and prices are sticky.

✗ D. Wages are flexible but prices are sticky.

Q.72 **The term 'Pallavi' relates to the first or the second thematic lines of the composition in which of the following music?**

Ans

✗ A. Classical Urdu music

✓ B. Classical Carnatic music

✗ C. Classical Hindustani music

✗ D. Classical Tribal and Folk music

Q.73 **Which of the following aspects is covered by the Ayushman Sahakar Scheme?**

Ans

✗ A. Physical infrastructure

✗ B. Agriculture infrastructure

✗ C. Housing infrastructure

✓ D. Healthcare and Education infrastructure

Q.74 **In April 2023, India's first Laser Interferometer Gravitational Waves Observatory project was approved to be established in which of the following states?**

Ans

✗ A. Odisha

✓ B. Maharashtra

✗ C. Uttar Pradesh

✗ D. Rajasthan

Q.75 **Ritu Negi, who was awarded with the Arjuna Awards for outstanding performance in Sports and Games 2023, is a player related to which of the following games?**

Ans

✗ A. Boxing

✗ B. Kho-Kho

✗ C. Archery

✓ D. Kabaddi

Q.76 **Neeraja Prabhakar was nominated Chairperson of the Research Advisory Committee (RAC) of _____ in 2023.**

Ans

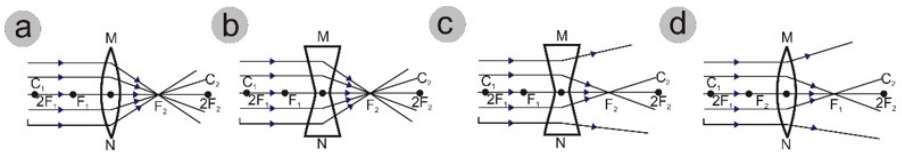
✓ A. ICAR-Indian Institute of Oil Palm Research (IIOPR), Pedavegi

✗ B. ICAR-Central Institute of Research on Cotton Technology, Mumbai

✗ C. ICAR-Central Avian Research Institute, Izatnagar

✗ D. ICAR-National Dairy Research Institute, Karnal

Q.77 **Which of the following diagrams accurately depicts the properties of convex lenses?**



Ans

✓ A. a

✗ B. d

✗ C. b

✗ D. c

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Q.78 **Which of the following union territories has the highest literacy rate among males in India according to Census 2011?**

Ans

✗ A. Andaman and Nicobar Islands

✗ B. Puducherry

✓ C. Lakshadweep

✗ D. Delhi

Q.79 **The Bills of Lading Bill, 2024 was introduced by which of the following ministries in August 2024?**

Ans

✗ A. Ministry of Commerce and Industry

✓ B. Ministry of Ports, Shipping and Waterways

✗ C. Ministry of Civil Aviation

✗ D. Ministry Of Home Affairs

Q.80 **Who among the following is the author of 'Adipurana'?**

Ans

✗ A. Krishna

✗ B. Amoghvarsha

✗ C. Rishabhdeva

✓ D. Jinasena

Q.81 **The fourth state of matter 'PLASMA' is a/an _____.**

Ans

✓ A. ionised gas with ions and electrons in an almost equal number

✗ B. neutral gas with fewer electrons

✗ C. state between liquid and gas

✗ D. ionized gas

Q.82 **Under which Article of the Indian Constitution can a member of the Public Service Commission be removed by the President of India?**

Ans

✗ A. Article 314

✗ B. Article 315

✓ C. Article 317

✗ D. Article 318

Q.83 **Where in India is the 'Basilica of Bom Jesus' building located?**

Ans

✗ A. Ranchi

✓ B. Goa

✗ C. Mumbai

✗ D. Delhi

Q.84 **With reference to agriculture in India, what is 'Barani'?**

Ans

✗ A. Variety of maize

✗ B. Deity of agriculture

✓ C. Rainfed farming

✗ D. Shifting agriculture

Q.85 **How many stanzas are there in the poem 'Nandikkalambakam'?**

Ans

✗ A. 60 stanzas

✗ B. 50 stanzas

✗ C. 70 stanzas

✓ D. 80 stanzas

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Q.86 **Which of the following river systems in Rajasthan is the most extensive and transient with its source near Pushkar, splitting into two streams known as 'Saraswati' and 'Sabarmati'?**

Ans

✗ A. Yamuna River

✓ B. Luni River

✗ C. Godavari River

✗ D. Tapti River

Q.87 **In which year was the first Regional Rural Bank established?**

Ans

✗ A. 1982

✓ B. 1975

✗ C. 1980

✗ D. 1991

Q.88 **When did HH Dixon give the first detailed description of the cohesion-tension theory explaining the water transport in xylem?**

Ans

✗ A. 1890

✗ B. 1937

✗ C. 1982

✓ D. 1914

Q.89 **In the context of genetics, what is the primary purpose of pedigree analysis?**

Ans

✗ A. To measure the physical traits of individuals in a population

✗ B. To study the ecological interactions between species in an environment

✗ C. To analyse the nutritional requirements of different organisms

✓ D. To track the inheritance of specific traits across generations within a family

Q.90 **Which of the following teams won the Season 10 of Pro Kabaddi League (PKL), concluded in March 2024?**

Ans

✗ A. Patna Pirates

✗ B. Haryana Steelers

✗ C. Jaipur Pink Panthers

✓ D. Puneri Paltan

Q.91 **Who among the following Indian won the UN Military Gender Advocate of the Year award in 2023?**

Ans

✗ A. Major Ananya Sen

✗ B. Major Monika Sen

✗ C. Major Wamika Sen

✓ D. Major Radhika Sen

Q.92 **What is the major rationale of the Government of India to set up the Agricultural Prices Commission?**

Ans

✗ A. To determine the prices of agricultural goods sold in the market

✗ B. To determine the prices of seeds supplied by the government

✓ C. To determine the prices of agricultural goods procured from farmers

✗ D. To determine the prices of agricultural goods sold by the government

Q.93 **In which of the following years has Dinesh Goswami committee been formed for Electoral Reforms?**

Ans

✗ A. 1998

✗ B. 2005

✗ C. 2000

✓ D. 1990

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Q.94 **Who wrote the book 'The Discovery of India'?**

Ans

✔ A. Jawaharlal Nehru

✘ B. Maulana Abul Kalam Azad

✘ C. Bhagat Singh

✘ D. Mahatma Gandhi

Q.95 **In 1978, the _____ Amendment to the Constitution removed the right to the property from the list of the fundamental rights and converted it into a simple legal right under Article 300A.**

Ans

✘ A. 1. 45th

✔ B. 2. 44th

✘ C. 3. 42nd

✘ D. 4. 43rd

Q.96 **Who among the social reformers following founded the Widow Remarriage Association in 1861?**

Ans

✔ A. Mahavdev Govind Ranade

✘ B. Dadabhai Naoroji

✘ C. Jyotiba Phule

✘ D. Dayanand Saraswati

Q.97 **A reproductive method in which a single parent is capable of producing offsprings is called ____.**

Ans

✔ A. Asexual Reproduction

✘ B. Fertilization

✘ C. Sexual Reproduction

✘ D. Pollination

Q.98 **Which of the following states has the highest sex ratio (females per 1000 males) according to the Census 2011?**

Ans

✔ A. Kerala

✘ B. Himachal Pradesh

✘ C. Tamilnadu

✘ D. Punjab

Q.99 **The Abhinav Bharat Mandir (Young India Society) was founded by _____ and his brother as a secret organisation during the Indian War for Independence.**

Ans

✔ A. Vinayak Damodar Savarkar

✘ B. Damodar Hari Chapekar

✘ C. Mahadev Govind Ranade

✘ D. Sardar Vallabhbhai Patel

Q.100 **Which of the following is the general trend of rainfall distribution across the northern plains of India?**

Ans

✘ A. It increases from east to west.

✘ B. It decreases from west to east.

✘ C. It is a uniform distribution across the region.

✔ D. It decreases from east to west.

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Q.101 **The fourth Quad Leaders' Summit of September 2024 was held at which place in the United States?**

Ans

- ✔ A. Wilmington
- ✘ B. Chicago
- ✘ C. Dallas
- ✘ D. New York

Q.102 **What is the term of office of the Chairmen and Members of the National Commission of Scheduled Tribes?**

Ans

- ✘ A. 06 Years
- ✘ B. 5.5 Years
- ✔ C. 03 Years
- ✘ D. 04 Years

Q.103 **In which of the following cases was 'the basic structure doctrine' recognised for the first time?**

Ans

- ✘ A. LIC of India case
- ✔ B. Kesavananda Bharti case
- ✘ C. Berubari Union case
- ✘ D. Kumar Padma Prasad case

Q.104 **In March 2023, India rejected Johnson and Johnson's attempt to extend its monopoly on the manufacturing of which TB drug, invoking Section 3(d) of the Indian Patent Law?**

Ans

- ✘ A. Rifampin
- ✘ B. Isoniazid
- ✘ C. Ethambutol
- ✔ D. Bedaquiline

Q.105 **Which Indian government scheme is specifically aimed at providing at least 100 days of guaranteed wage employment to rural households?**

Ans

- ✔ A. Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA)
- ✘ B. Pradhan Mantri Kaushal Vikas Yojana (PMKVY)
- ✘ C. Pradhan Mantri Rozgar Protsahan Yojana (PMRPY)
- ✘ D. National Rural Livelihood Mission (NRLM)

Q.106 **In which year was the 'Bharatiya Sakshya Bill' passed in India?**

Ans

- ✔ A. 2023
- ✘ B. 2022
- ✘ C. 2024
- ✘ D. 2021

Q.107 **Which of following is NOT a measure to improve agricultural marketing?**

Ans

- ✔ A. Manupulation by big traders
- ✘ B. Providing fair price for farmer produce
- ✘ C. Better infrastructural facilities
- ✘ D. Regulated markets to protect farmer from malpractice

Q.108 **Who among the following introduced the Boilers Bill, 2024 in Rajya Sabha in August 2024?**

Ans

- ✘ A. Union Minister for Finance
- ✘ B. Union Minister for Minority Affairs
- ✔ C. Union Minister for Commerce and Industry
- ✘ D. Union Minister for Tribal Affairs

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Q.109 Match the Column-I with Column-II and select your answer from the codes mentioned below:

(Column I)	(Column II)
(a) Northeast Trade Winds	i. Hot, dry winds of northern India
(b) Southwest Monsoon Winds	ii. Brings winter rains to the northern plains
(c) Winter Cyclonic Disturbances	iii. Brings moisture-laden winds from the Indian Ocean
(d) Loo	iv. Blows from land to sea during winter

Ans
- ✗ A. (a) i (b) ii (c) iii (d) iv
- ✗ B. (a) iii (b) iv (c) ii (d) i
- ✓ C. (a) iv (b) iii (c) ii (d) i
- ✗ D. (a) iv (b) ii (c) iii (d) i

Q.110 **Who among the following Carnatic music composers is known for his compositional contributions in Telugu and Sanskrit languages, particularly in praise of Lord Rama?**

Ans
- ✗ A. Purandara Dasa
- ✗ B. Annamacharya
- ✗ C. Muthuswami Dikshitar
- ✓ D. Tyagaraja

Q.111 **In which of the following years was the All India Muslim League founded?**

Ans
- ✗ A. 1905
- ✗ B. 1914
- ✓ C. 1906
- ✗ D. 1919

Q.112 **Which of the following is NOT a part of the electoral college for the election of the President?**

Ans
- ✓ A. Nominated members of the Rajya Sabha
- ✗ B. Elected members of the Rajya Sabha
- ✗ C. Elected members of the Lok Sabha
- ✗ D. Elected members of the State Assembly

Q.113 **Which of the following substances produces hydroxide ions when dissolved in water?**

Ans
- ✓ A. Ammonia
- ✗ B. Nitrogen dioxide
- ✗ C. Carbon dioxide
- ✗ D. Sulphur dioxide

Q.114 **Which of the following Sultans of Delhi adopted the policy of Blood and Iron?**

Ans
- ✗ A. Mubarak Shah
- ✗ B. Alauddin Khalji
- ✗ C. Shamsuddin Iltutmish
- ✓ D. Ghiyasuddin Balban

Q.115 **The joint Air Force exercise known as 'GARUDA-VII' was held between:**

Ans
- ✓ A. India and France
- ✗ B. India and Sudan
- ✗ C. India and Malaysia
- ✗ D. India and South Africa

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Q.116 State Highways in India primarily link which of the following?

Ans

✗ A. Rural areas and villages with state capitals

✗ B. Extreme parts of the country with New Delhi

✗ C. District headquarters with other places of the district

✓ D. State capitals with different district headquarters

Q.117 The 7th meeting of the UN Committee of Experts on Business and Trade Statistics, organised by the World Trade Organization (WTO) in September 2024, was held at which place?

Ans

✗ A. Beijing

✗ B. Budapest

✗ C. Madrid

✓ D. Geneva

Q.118 Which of the following is involved in the process of privatisation?

Ans

✗ A. Nationalising private companies

✗ B. Abolishing private property rights

✗ C. Increasing government control over the enterprise

✓ D. Selling shares to the public through an initial public offering (IPO)

Q.119 The Kayatha Culture of Chalcolithic period in Ancient India belongs to which of the following states of India?

Ans

✗ A. Punjab

✓ B. Madhya Pradesh

✗ C. Maharashtra

✗ D. Rajasthan

Q.120 Which of the following is NOT included in the Fundamental Duties enshrined in the Indian Constitution?

Ans

✗ A. To safeguard public property and to abjure violence

✗ B. To cherish and follow the noble ideals that inspired the national struggle for freedom

✓ C. To pay taxes

✗ D. To value and preserve the rich heritage of the country's composite culture

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रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS

सी ई एन आर पी एफ - ०१/२०२४ - CEN RPF - 01/2024

Test Date	12/12/2024
Test Time	12:30 PM - 2:00 PM
Subject	RRB RPF SI 2024

*** Note**
Correct Answer will carry 1 mark per Question.
Incorrect Answer will carry 1/3 Negative mark per Question.

1. Options shown in green color with a tick icon are correct.

Section : **Arithmetic**

Q.1 **Find the simple interest (in ₹) on ₹2000 at 6.5% per annum rate of interest for the period from 3 February 2023 to 17 April 2023**

Ans
- ✗ A. 24
- ✓ B. 26
- ✗ C. 25
- ✗ D. 27

Q.2 $\frac{2}{8}, \frac{7}{24}, \frac{51}{76}, \frac{82}{85}$

Ans
- ✗ A. $\frac{2}{8}$
- ✗ B. $\frac{7}{24}$
- ✓ C. $\frac{82}{85}$
- ✗ D. $\frac{51}{76}$

Q.3 **The area of a square plot is 7569 m^2. The length of each side of the plot (in m) is:**

Ans
- ✓ A. 87
- ✗ B. 97
- ✗ C. 63
- ✗ D. 69

Q.4 **The number 18579285492174 is divisible by:**

Ans
- ✗ A. 4
- ✗ B. 5
- ✗ C. 9
- ✓ D. 11

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Q.5 The side of a rhombus is 20 cm and the length of the one of the diagonals is 32 cm. Find the area (in cm^2) of the rhombus.

Ans

✗ A. 560

✓ B. 384

✗ C. 424

✗ D. 484

Q.6 A shopkeeper sells an item for ₹953.7 after giving two successive discounts of 49% and 75% on its marked price. Had he not given any discount, he would have earned a profit of 10%. What is the cost price (in ₹) of the item?

Ans

✗ A. 6763

✗ B. 6796

✗ C. 6794

✓ D. 6800

Q.7 $\frac{4}{7}+\frac{5}{7}+\frac{3}{14}+\frac{1}{7}-2=$

Ans

✗ A. $\frac{1}{14}$

✗ B. $\frac{5}{14}$

✗ C. $-\frac{8}{14}$

✓ D. $-\frac{5}{14}$

Q.8 The areas of three adjacent faces of a solid cuboid are 192 cm^2, 242 cm^2 and 24 cm^2. What is the volume (in cm^3) of the cuboid?

Ans

✗ A. 1042

✗ B. 1328

✗ C. 1132

✓ D. 1056

Q.9 The smallest 1-digit number to be added to the 6-digit number 723265 so that it is completely divisible by 11 is:

Ans

✗ A. 4

✗ B. 2

✗ C. 6

✓ D. 7

Q.10 The difference between the simple interest and the compound interest, compounded annually, on a certain sum of money for 2 years at 14% per annum is ₹633. Find the sum. [Give your answer to integral number without rounded off.]

Ans

✓ A. ₹32295

✗ B. ₹32313

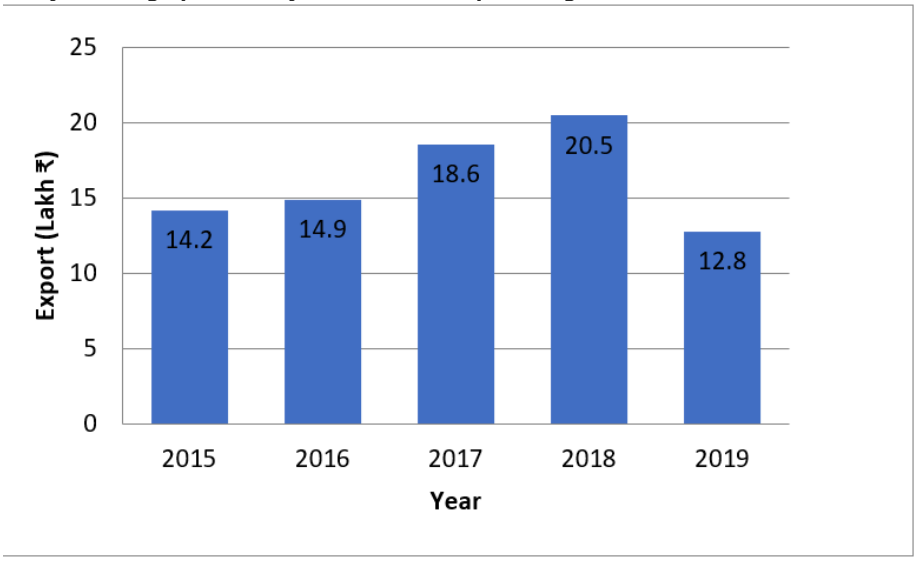
✗ C. ₹32288

✗ D. ₹32282

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Q.11 **The following bar graph represents the export of sugarcane (in lakh ₹) during five years. Study the bar graph carefully and answer the question given below:**



What is the approximate per cent decrement in export in 2019 in comparison to the average export during these five years?

Ans

✗ A. 19%

✗ B. 20%

✓ C. 21%

✗ D. 22%

Q.12 $0.16\overline{9} + 0.\overline{3}$

Ans

✗ A. $\frac{151}{900}$

✗ B. $\frac{152}{300}$

✓ C. $\frac{151}{300}$

✗ D. $\frac{151}{990}$

Q.13 By selling an article at $\frac{6}{14}$ of its actual selling price, Sharad incurs a lo

Ans

✗ A. 87.9%

✗ B. 85.4%

✗ C. 85.9%

✓ D. 84.8%

Q.14 **During sale, Raghav bought a notebook marked for ₹50 at 10% discount and a pen marked for ₹100 at 83% discount. How much (in ₹) did he save due to sale?**

Ans

✗ A. 89

✓ B. 88

✗ C. 91

✗ D. 86

Q.15 **The smallest natural number which is divisible by 24, 16, 15 and 40 is:**

Ans

✗ A. 180

✓ B. 240

✗ C. 245

✗ D. 172

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Q.16 Mamta and Geeta invest in a business in the ratio 1 : 11. If total profit is Rs. 4500, then what is difference between the profit (in Rs.) of Mamta and Geeta?

Ans

✗ A. 3850

✓ B. 3750

✗ C. 3900

✗ D. 3700

Q.17 A bank offers 9.6% compound interest per annum calculated on a half-yearly basis. A customer deposits ₹8908 each on 1 January and 1 July of a year. At the end of the year, the amount he would have gained by way of interest is _____. [Give your answer correct to 2 decimal places.]

Ans

✗ A. ₹1313.27

✗ B. ₹1303.08

✗ C. ₹1299.47

✓ D. ₹1303.27

Q.18 What time (in seconds) is required for a 284 m long train to cross a 676 m long tunnel, if the train travels at a speed of 18 km/h?

Ans

✗ A. 195

✗ B. 188

✓ C. 192

✗ D. 193

Q.19 If p = $\{(-1.5)\times(-8.2)-3.3\}$ then find the sum of the digits in p^3.

Ans

✗ A. 17

✗ B. 16

✓ C. 18

✗ D. 15

Q.20 A person covers certain distance in 9 hours at a speed of 7 km/h and some more distance in 5 hours at a speed of 5 km/h. Find his average speed for the entire distance covered.

Ans

✗ A. $5\frac{2}{7}$

✓ B. $6\frac{2}{7}$

✗ C. $8\frac{2}{7}$

✗ D. $7\frac{2}{7}$

Q.21 The average price of three items of furniture is Rs 15945. If their prices are in the ratio 3:5:7, the price of the costliest item (in Rs) is

Ans

✗ A. 7441

✗ B. 3189

✗ C. 5315

✓ D. 22323

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Q.22 A 372 m long train crosses a man walking at a speed of 6.9 km/h in the opposite direction in 24 seconds. What is the speed (in km/h) of the train?

Ans
- ✔ A. 48.9
- ✘ B. 49.2
- ✘ C. 51.3
- ✘ D. 46.5

Q.23 A number when increased by 50 %', gives 3900. The number is:

Ans
- ✔ A. 2600
- ✘ B. 5200
- ✘ C. 7800
- ✘ D. 1300

Q.24 The average price of three items of furniture is Rs 15990. If their prices are in the ratio 3:5:7, the price of the costliest item (in Rs) is

Ans
- ✘ A. 3198
- ✘ B. 7462
- ✘ C. 5330
- ✔ D. 22386

Q.25 $\frac{3}{5}, \frac{2}{44}, \frac{40}{47}, \frac{35}{53}$

Ans
- ✘ A. $\frac{35}{53}$
- ✘ B. $\frac{2}{44}$
- ✔ C. $\frac{40}{47}$
- ✘ D. $\frac{3}{5}$

Q.26 The sides of a triangle are 60 cm, 61 cm, and 11 cm. What is its area? (in cm^2)

Ans
- ✘ A. 328
- ✘ B. 349
- ✔ C. 330
- ✘ D. 309

Q.27 The average marks of 35 students is 52. If each student's marks are decreased by 3, what will be the sum of the digits of the new average?

Ans
- ✘ A. 14
- ✔ B. 13
- ✘ C. 12
- ✘ D. 15

Q.28 If third proportional of 48 and 24 be x, then what is the value of x?

Ans
- ✘ A. 15
- ✔ B. 12
- ✘ C. 10
- ✘ D. 13

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Q.29 Find the value of $\left[(20 \times 13) \times \left\{4 \div 4 \times \frac{(19-13)}{3}\right\}\right]$

Ans
- ✗ A. 510
- ✗ B. 527
- ✗ C. 525
- ✓ D. 520

Q.30 If x varies inversely as $y^3 - 1$ and is equal to 3 when y = 2, find x when y = 4.

Ans
- ✗ A. $\frac{2}{4}$
- ✗ B. $\frac{3}{3}$
- ✗ C. $\frac{1}{4}$
- ✓ D. $\frac{1}{3}$

Q.31 In an election between two candidates, 75% of the eligible voters cast their votes and 6% of the votes cast were declared invalid. A candidate got 15228 votes, which were 90% of the total valid votes. Find the total number of eligible voters.

Ans
- ✓ A. 24000
- ✗ B. 27000
- ✗ C. 25600
- ✗ D. 24850

Q.32 A flask is full of 20% sulphuric acid solution. A part of this 20% sulphuric acid solution is replaced by a 4% sulphuric acid solution and in this process 10% sulphuric acid solution is obtained. What fraction of 20% sulphuric acid solution is replaced from the flask?

Ans
- ✗ A. $\frac{2}{5}$
- ✓ B. $\frac{5}{8}$
- ✗ C. $\frac{3}{5}$
- ✗ D. $\frac{7}{8}$

Q.33 Anmol completes his journey in 15 hours. He covers half the distance at 62 km/h and the rest at 93 km/h. What is the length of the journey (in Km)?

Ans
- ✗ A. 1110
- ✗ B. 1117
- ✓ C. 1116
- ✗ D. 1114

Q.34 Find the gain percentage, given that Anubha sold her scooter for ₹978

Ans
- ✗ A. 35%
- ✓ B. 25%
- ✗ C. 40%
- ✗ D. 30%

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Q.35 **The average of 41 numbers is 58. The average of the first 16 numbers is 46 and the average of the last 26 numbers is 66. If the 16th number from the beginning is excluded, then what is the average of the remaining numbers?**

Ans

✗ A. 55.81

✗ B. 53.107

✓ C. 57.6

✗ D. 61.1

Section : **General Intelligence and Reasoning**

Q.36 **In a certain code language, 'MORE' is coded as '4876' and 'WORM' is coded as '6783'. What is the code for 'W' in the given code language?**

Ans

✗ A. 8

✗ B. 7

✗ C. 6

✓ D. 3

Q.37 **Select the number from among the given options that can replace the question mark (?) in the following series.**

17 21 30 46 71 ?

Ans

✗ A. 105

✗ B. 106

✗ C. 109

✓ D. 107

Q.38 **Three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which is the letter-cluster pair that does NOT belong to that group?**
(Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)

Ans

✓ A. HL - CE

✗ B. TX - OR

✗ C. LP - GJ

✗ D. PT - KN

Q.39 **IAEH is related to KCGJ in a certain way based on the English alphabetical order. In the same way, LDHK is related to NFJM. To which of the following is OGKN related, following the same logic?**

Ans

✗ A. IQMP

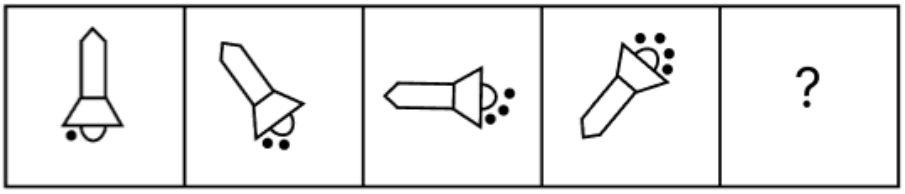
✗ B. QIPM

✓ C. QIMP

✗ D. IQPM

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Q.40



Ans

✗ A.



✗ B.



✓ C.



✗ D.



Q.41 **Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?**

TWZ19, JMP31, ZCF43, PSV55, ?

Ans

✗ A. FAY67

✓ B. FIL67

✗ C. EAX67

✗ D. FBX67

Q.42 **A is the sister of B's son C. K is the father of C, and L is the father of K. How is A related to L?**

Ans

✓ A. Son's daughter

✗ B. Son's wife

✗ C. Daughter's daughter

✗ D. Son's son

Q.43 **Refer to the given letter, number, symbol series and answer the question that follows.**

(Left) % 7 Y # K E G 6 3 C & T @ 2 5 4 D * S R + (Right)

How many such letters are there, that are immediately preceded by a number and also immediately followed by a symbol?

Ans

✗ A. 5

✓ B. 3

✗ C. 4

✗ D. 2

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Q.44 **Rajan starts from Point A and drives 12 km towards west. He then takes a left turn, drives 13 km, turns left and drives 14 km. He then takes a left turn and drives 18 km. He takes a final left turn, drives 2 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degrees turns only unless specified)**

Ans

✔ A. 5 km to the south

✘ B. 4 km to the south

✘ C. 2 km to the south

✘ D. 3 km to the south

Q.45 **If 1 is added to each even digit and 2 is subtracted from each odd digit in the number 9738625, how many digits will appear more than once in the new number thus formed?**

Ans

✘ A. None

✘ B. One

✔ C. Two

✘ D. Three

Q.46 **Each letter in the word FORAGE is changed to the letter immediately succeeding it in the English alphabetical order and then all the letters thus formed are arranged in alphabetical order. Which of the following letters will be the second from the left in the new letter-cluster thus formed?**

Ans

✘ A. G

✘ B. B

✔ C. F

✘ D. H

Q.47 **Seven boxes, A, B, C, D, E, F and G, are kept one over the other but not necessarily in the same order. Only three boxes are kept above F. Only one box is kept between D and F. Only three boxes are kept between D and B. B is kept at some place above F. G is kept immediately below B. E is kept at one of the places above A. C is not kept immediately above or below D. How many boxes are kept above G?**

Ans

✘ A. 1

✘ B. 3

✘ C. 4

✔ D. 2

Q.48 **Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.**

BIP ELS HOV KRY ?

Ans

✘ A. BUN

✘ B. NBU

✔ C. NUB

✘ D. BNU

Q.49 **Six people, named W, X, Y, Z, T and U, each are of different ages. The age of X is 10. The age of Y is five times the age of W. The age of Z is one-fourth the age of U. The age of W is two times the age of Z. The age of X is one-fourth the age of Y. If the age of U is one-third the age of T, what is the age of T?**

Ans

✘ A. 58

✘ B. 45

✘ C. 68

✔ D. 48

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Q.50 **In a certain code language,**
A ; B means 'A is the sister of B',
A = B means 'A is the daughter of B',
A < B means 'A is the son of B',
and A + B means 'A is the father of B'.

How is T related to O if 'T < A ; N = G + O'?

Ans

✔ A. Sister's son

✘ B. Sister's father

✘ C. Sister's mother

✘ D. Sister's daughter

Q.51 **Select the set in which the numbers are related in the same way as are the numbers of the following sets.**
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
(11, 60, 19)
(23, 78, 16)

Ans

✘ A. (48, 139, 22)

✔ B. (18, 78, 21)

✘ C. (33, 101, 18)

✘ D. (38, 89, 7)

Q.52 **If 'P' stands for '×' , 'Q' stands for '÷', 'R' stands for '–' and 'S' stands for '+' , what will come in place of the question mark '?' in the following equation?**
(48 Q 6) P 3 S 18 R 12 S (13 P 2) S 40 R 28 = ?

Ans

✘ A. 50

✘ B. 92

✘ C. 84

✔ D. 68

Q.53 **Rohit starts from Point A and drives 10 km towards West. He then takes a left turn, drives 6 km, turns left and drives 11 km. He then takes a left turn and drives 9 km. He takes a final left turn, drives 1 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degree turns only unless specified.)**

Ans

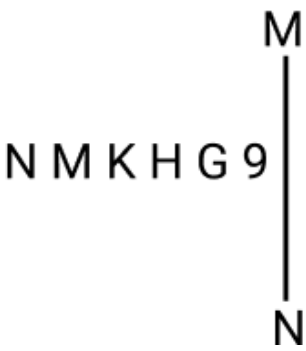
✘ A. 3 km to the North

✔ B. 3 km to the South

✘ C. 2 km to the North

✘ D. 2 km to the South

Q.54



Ans

✘ A. ϱ Ǝ H ϗ N M

✘ B. ϱ K H G M И

✔ C. ϱ Ǝ H ϗ M И

✘ D. H G 9 ϗ M И

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Q.55 If 2 is added to each even digit and 1 is subtracted from each odd digit in the number 6172359, what will be the sum of the last two digits from the left in the new number thus formed?

Ans

✗ A. 6

✓ B. 12

✗ C. 10

✗ D. 8

Q.56 Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of ::?
: HLP :: LPT : %

Ans

✓ A. # = AEI, % = SWA

✗ B. # = AEI, % = UWA

✗ C. # = BEI, % = SWA

✗ D. # = AEI, % = SWO

Q.57 G, H, I, J, M, N and O are sitting around a square table facing the centre of the table. No one sits to the right of M. Only three people sit between M and O. Only two people sit between O and H. G sits third to the left of N. J sits to the immediate right of N. How many people sit between I and H?

Ans

✗ A. Four

✗ B. One

✗ C. Two

✓ D. Three

Q.58 Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which pair DOES NOT belong to that group?
(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster pair.)

Ans

✗ A. UP : SN

✗ B. KF : ID

✓ C. MH : KE

✗ D. ID : GB

Q.59 Refer to the following letter and symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) T £ & Z N € Z % A € # * B I © £ * O J @ H A (Right)

How many such letters are there which are immediately preceded by a symbol and also immediately followed by a symbol?

Ans

✗ A. One

✓ B. Two

✗ C. Four

✗ D. Zero

Q.60 Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?

(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster.)

Ans

✗ A. EHF

✓ B. SWT

✗ C. KNL

✗ D. QTR

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Q.61 **Seven boxes U, V, W, X, P, Q and R are kept one over the other but not necessarily in the same order. V is kept second from the bottom. Only three boxes are kept between V and R. X is kept at one of the positions below V. Only U is kept between R and W. P is kept at one of the positions above R. How many boxes are kept between X and P?**

Ans

✗ A. One

✗ B. Three

✓ C. Five

✗ D. Four

Q.62 **Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of :: ?**

: PRM :: NPK : %

Ans

✗ A. # = MJH, % = PRV

✗ B. # = NLH, % = NJH

✗ C. # = NHG, % = SKI

✓ D. # = KMH, % = SUP

Q.63 **C, D, E, F, G, H and U are sitting around a circular table facing the centre of the table. Only two people sit between D and G, when counted from the left of G. U sits third to the left of E. H sits to the immediate right of E. H sits second to the left of D. C is not an immediate neighbour of U. Who sits third to the right of F?**

Ans

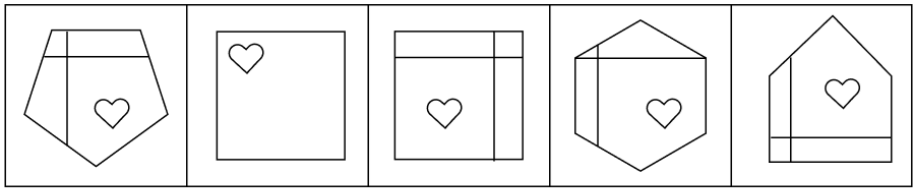
✓ A. H

✗ B. E

✗ C. C

✗ D. G

Q.64 **Four of the following five figures are alike in a certain way and thus form a group. Which figure DOES NOT belong to that group?**



Ans

✗ A. E

✗ B. D

✓ C. B

✗ D. C

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Q.65 **Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusion(s) logically follow(s) from the statements.**

Statements:
All computers are desktops.
All desktops are laptops.
No computer is a phone.

Conclusions:
(I) No desktop is a phone.
(II) No laptop is a phone.

Ans
✔ A. Neither conclusion (I) nor (II) follows.
✘ B. Only conclusion I follows.
✘ C. Only conclusion II follows.
✘ D. Both conclusions (I) and (II) follow.

Q.66 **5 is related to 28 following a certain logic. Following the same logic, 3 is related to 12. To which of the following is 24 related, following the same logic?**
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

Ans
✘ A. 587
✘ B. 586
✔ C. 579
✘ D. 597

Q.67 **Refer to the following letter, number and symbol series and answer the question that follows. Counting to be done from left to right only.**
(Left) M % $ F I 5 * £ 8 € € 9 M Z @ & 6 1 3 @ J £ (Right)
If all the numbers are dropped from the series, which of the following will be sixth from the left?

Ans
✘ A. F
✘ B. $
✔ C. *
✘ D. I

Q.68 **In a certain code language, 'BALE' is coded as '1579' and 'LUNG' is coded as '2461'. What is the code for 'L' in that language?**

Ans
✘ A. 7
✘ B. 5
✘ C. 2
✔ D. 1

Q.69 **In a certain code language, 'BREW' is coded as '7462' and 'WHAT' is coded as '3751'. What is the code for 'W' in the given code language?**

Ans
✘ A. 3
✔ B. 7
✘ C. 5
✘ D. 2

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Q.70 **P, Q, R, U, V and W live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it is numbered 2 and so on till the topmost floor, which is numbered 6.**
U lives on an even numbered floor but not on floor number 4. Only two people live between U and V. Q lives on an odd numbered floor but not on the lowermost floor. Only two people live between Q and P. W lives immediately below Q.
How many people live between R and W?

Ans
✗ A. Three
✓ B. Two
✗ C. Four
✗ D. One

Section : **General Awareness**

Q.71 **How do microfinance institutions (MFIs) contribute to financial inclusion in remote rural areas of India?**

Ans
✓ A. By establishing partnerships with local non-governmental organisations (NGOs) for outreach
✗ B. By focusing exclusively on urban micro-enterprises
✗ C. By relying solely on digital banking platforms for loan disbursement
✗ D. By offering standardised loan products similar to traditional banks

Q.72 **Bhanudeva II, the ruler of Jajnagar in Orissa helped Rai Rudra Dev of Warangal in his battle against _____, the Sultan of Delhi.**

Ans
✗ A. Sikandar Lodhi
✓ B. Ghiyasuddin Tughlaq
✗ C. Bahlol Lodhi
✗ D. Firoz Shah Tughlaq

Q.73 **PM Gatishakti National Master Plan was launched in which year?**

Ans
✓ A. 2021
✗ B. 2019
✗ C. 2020
✗ D. 2023

Q.74 Match the (List-I - Geographical regions) with (List II - Reason for their distinct climate) and select your answer the code below:

(List-I geographical regions)	(List II reason for their distinct climate)
(a) Rajasthan	i. Houses have sloping roofs
(b) Tarai region	ii. Houses have thick walls and flat roofs
(c) Assam	iii. Houses are built on stilts
(d) Goa	iv. Experiences seasonal rain during October and November

Ans
✗ A. (a) iii (b) ii (c) i (d) iv
✗ B. (a) iii (b) i (c) ii (d) iii
✗ C. (a) iv (b) iii (c) ii (d) i
✓ D. (a) ii (b) i (c) iii (d)iv

Q.75 **With reference to the Indian Monsoon, who among the following established the relationship between upper air circulations and atmospheric conditions over the Tibetan plateau?**

Ans
✓ A. P Koteswaram
✗ B. RK Sinha
✗ C. Birbal Sahni
✗ D. Tessy Thomas

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Q.76 **In the context of plant and animal kingdoms, what does chemotaxonomy primarily focus on?**

Ans

✔ A. The classification of organisms based on their chemical composition.

✘ B. 2. The examination of genetic sequences in mitochondrial DNA.

✘ C. 3. The classification of organisms based on their ecological roles.

✘ D. 4. The classification of organisms based on their morphological characteristics.

Q.77 **Where is the Vajragiri Buddhist monastery located?**

Ans

✔ A. Odisha

✘ B. Bihar

✘ C. Madhya Pradesh

✘ D. Uttar Pradesh

Q.78 **Postulates of special theory of relativity are applicable to _____.**

Ans

✘ A. accelerated frames

✔ B. inertial frames

✘ C. all frames of references

✘ D. stationary frames

Q.79 **Bhajan Lal Sharma took oath on 15 December 2023 as the Chief Minister of which of the following states of India?**

Ans

✘ A. Jharkhand

✔ B. Rajasthan

✘ C. Madhya Pradesh

✘ D. Haryana

Q.80 **The Hazira-Vijaipur-Jagdishpur (HVJ) gas pipeline links Mumbai High with industries in which of the following regions of India?**

Ans

✘ A. Southern and eastern

✘ B. Northern and eastern

✔ C. Western and northern

✘ D. Central and western

Q.81 **Which of the following States/UTs DOES NOT have any SC population as per the Census 2011?**

Ans

✔ A. Andaman and Nicobar Islands

✘ B. Sikkim

✘ C. Manipur

✘ D. Tripura

Q.82 **Former Lok Sabha MP from Assam Ramen Deka was appointed as Governor of which of the following states of India in July 2024?**

Ans

✘ A. Odisha

✘ B. Maharashtra

✘ C. Andhra Pradesh

✔ D. Chhattisgarh

Q.83 **Which round of the National Family Health Survey (NFHS) for maternal and child health and other associated indicators was launched by the Centre in December 2023?**

Ans

✘ A. NFHS-7

✔ B. NFHS-6

✘ C. NFHS-4

✘ D. NFHS-5

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Q.84 **Who among the following great personalities, along with his followers, founded the 'Brahmo Samaj of India' in 1866?**

Ans
- ✔ A. Keshab Chandra Sen
- ✘ B. Dayananda Saraswati
- ✘ C. Debendranath Tagore
- ✘ D. Raja Ram Mohan Roy

Q.85 **Vigyan Shri 2024 Awardee in the field of agricultural sciences, Dr. Anandharamakrishnan C, is the Director of which of the following institutions as on October 2024?**

Ans
- ✘ A. ICAR-Central Institute on Fisheries Education, Mumbai
- ✘ B. CSIR-Centre for Cellular Molecular Biology, Hyderabad
- ✔ C. CSIR-National Institute For Interdisciplinary Science and Technology, Thiruvananthapuram
- ✘ D. ICAR-Central Arid Zone Research Institute, Jodhpur

Q.86 **Who among the following composed the treatise, 'Mahabhashya'?**

Ans
- ✘ A. Panini
- ✔ B. Patanjali
- ✘ C. Banabhatt
- ✘ D. Hala

Q.87 **Who assumed charge as Deputy Chief of the Naval Staff in October 2023?**

Ans
- ✘ A. Vice Admiral Ajit Kumar
- ✘ B. Vice Admiral Anil Kumar Chawla
- ✘ C. Vice Admiral R Hari Kumar
- ✔ D. Vice Admiral Tarun Sobti

Q.88 **Which of the following methods is used for the estimation of poverty in India?**

Ans
- ✔ A. Head Count Ratio
- ✘ B. Relative Poverty
- ✘ C. Absolute Poverty
- ✘ D. Multidimensional Poverty Index

Q.89 **Which of the following optical instruments creates colourful beautiful patterns due to multiple reflections in plane mirrors?**

Ans
- ✔ A. Kaleidoscope
- ✘ B. Telescope
- ✘ C. Magnifying glass
- ✘ D. Stereomicroscope

Q.90 **Who among the following established the Khalji dynasty?**

Ans
- ✘ A. Alauddin Khalji
- ✘ B. Mubarak Shah Khalji
- ✘ C. Arkali khan
- ✔ D. Jalaluddin Khalji

Q.91 **Which of the following colour revolutions is NOT correctly matched with its associated agricultural sector's significant increase in production in India since Independence?**

Ans
- ✘ A. White revolution - Milk
- ✘ B. Yellow revolution - Oilseeds
- ✔ C. Blue revolution - Fruits and vegetables
- ✘ D. Green revolution - Foodgrain production

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Q.92 **Consider the following statements.**

1. Elections are held every five years for the Lok Sabha and each Legislative Assembly.
2. The President can dissolve the Lok Sabha even before the completion of 5 years of the government, if the Prime Minister makes such a recommendation to the President.
3. The Council of Ministers automatically gets dissolved due to the death or resignation of the Prime Minister.
4. The Lok Sabha elections are conducted according to the 'first past the post' system.

Select the correct statement.

Ans

✗ A. Only 1 and 2

✗ B. Only 1 and 4

✓ C. All 1,2,3 and 4

✗ D. Only 1, 2 and 4

Q.93 **Who was the first musician from Asia to be honoured with the Ramon Magsaysay Award for contributions to Carnatic music?**

Ans

✓ A. MS Subbulakshmi

✗ B. GN Balasubramaniam

✗ C. 3. Amrutha Venkatesh

✗ D. 4. Sai Shravanam

Q.94 **PM – Daksh Yojana is associated with:**

Ans

✗ A. precautionary health measures

✓ B. skill development training programmes

✗ C. use of fertilisers in agriculture

✗ D. protection from neighbouring countries

Q.95 **The Skill India Mission, aimed at training over 40 crore people in India in different skills by 2022, is primarily facilitated by which of the following?**

Ans

✗ A. Pradhan Mantri Kaushal Vikas Yojana (PMKVY)

✓ B. Both National Skill Development Corporation (NSDC) and Pradhan Mantri Kaushal Vikas Yojana (PMKVY)

✗ C. National Skill Development Corporation (NSDC)

✗ D. National Career Service (NCS)

Q.96 **Off the coast of which state of India was the New Generation Ballistic Missile 'Agni Prime' successfully flight-tested in June 2023?**

Ans

✓ A. Odisha

✗ B. Andhra Pradesh

✗ C. Rajasthan

✗ D. Maharashtra

Q.97 **The 15th BRICS summit unanimously decided to invite how many countries to become full members from 1 January 2024?**

Ans

✓ A. Six

✗ B. Seven

✗ C. Five

✗ D. Eight

Q.98 **Which of the following two organisations teamed up to develop India's first indigenous CAR-T cell therapy?**

Ans

✗ A. IIT Ropar and PGI Chandigarh

✓ B. IIT Bombay and Tata Memorial Centre

✗ C. IIT Delhi and AIIMS Delhi

✗ D. IIT Bombay and IIT Madras

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Q.99 **In which House of Parliament can a money bill be introduced?**

Ans

✔ A. Lok Sabha

✘ B. Vidhan Sabha

✘ C. Vidhan Parishad

✘ D. Rajya Sabha

Q.100 **On which of the following dates was the Supreme Court of India established?**

Ans

✘ A. 1. 15th August 1950

✘ B. 2. 28th January 1950

✘ C. 3. 22nd July 1950

✔ D. 4. 26th January 1950

Q.101 **Which statement is FALSE about particles of a matter?**

Ans

✔ A. Motion of particles of matter is unaffected by any external forces.

✘ B. Particles of matter attract each other.

✘ C. Particles of matter have space between them.

✘ D. Particles of matter are continuously moving.

Q.102 **Which of the following states in India was the first to implement the Panchayati Raj system?**

Ans

✘ A. Kerala

✘ B. West Bengal

✔ C. Rajasthan

✘ D. Maharashtra

Q.103 **Which of the following local storms is beneficial for tea, jute and rice cultivation?**

Ans

✔ A. Nor Westers

✘ B. Loo

✘ C. Blossom showers

✘ D. Mango showers

Q.104 **PV Sindhu was accompanied by whom as the flag bearer of India at the Paris 2024 Olympics opening ceremony?**

Ans

✘ A. PR Sreejesh

✘ B. Aman Sehrawat

✘ C. Manu Bhaker

✔ D. Sharath Kamal

Q.105 **The first Turkish ruler who introduced pure Arabic coins in India was _____.**

Ans

✘ A. Qutubuddin Aibak

✘ B. Balban

✔ C. Iltutmish

✘ D. Alauddin Khilji

Q.106 **On which document is the Concept of Directive Principles of State Policy based?**

Ans

✘ A. United States Constitution

✘ B. Magna Carta

✘ C. British Constitution

✔ D. Irish Constitution

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Q.107 **Which of the following Amendments has added the 11th Fundamental Duty in the Indian Constitution?**

Ans

✗ A. 1. 72nd Amendment

✓ B. 2. 86th Amendment

✗ C. 3. 84th Amendment

✗ D. 4. 80th Amendment

Q.108 **Ngozi Okonjo-Iweala, who was selected for the post of the Director General of the World Trade Organisation (WTO) until 31 August 2025, belongs to which African country?**

Ans

✓ A. Nigeria

✗ B. South Africa

✗ C. Algeria

✗ D. Sudan

Q.109 **The traditional folk music of Uttar Pradesh, featuring soulful melodies and often performed during weddings and festive occasions, is known as:**

Ans

✗ A. Maand

✗ B. Panihari

✗ C. Baul

✓ D. Kajari

Q.110 **Which Indian cricketer became the first batsman to cross 700 runs in a single World Cup edition during the 2023 ODI Cricket World Cup?**

Ans

✗ A. Yashasvi Jaiswal

✓ B. Virat Kohli

✗ C. Shubman Gill

✗ D. Rohit Sharma

Q.111 **_____ is the just distribution of resources in which every Indian should be able to meet his/her basic needs and inequality in the distribution of wealth should be reduced.**

Ans

✓ A. Equity

✗ B. Equality

✗ C. Egalitarianism

✗ D. Inclusion

Q.112 **How many of the following ways of losing citizenship have been prescribed in the Citizenship Act, 1955?**

Ans

✗ A. 2

✗ B. 3

✓ C. 5

✗ D. 4

Q.113 **Intestinal hookworm disease in humans is caused by which species of Aschelminthes?**

Ans

✗ A. Trichuris trichiura

✓ B. Ancylostoma duodenale

✗ C. Strongyloides stercoralis

✗ D. Ascaris lumbricoides

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Q.114 Which of the following states has the highest female literacy according to census of 2011?

Ans

✔ A. Kerala

✘ B. Goa

✘ C. Mizoram

✘ D. Tripura

Q.115 Which of the following is the definition of Globalisation?

Ans

✘ A. Globalisation is an outcome of agricultural policies that aim to transform the world towards greater interdependence and integration.

✘ B. Globalisation is an outcome of industrial policies that aim to transform the world towards greater interdependence and integration.

✔ C. Globalisation is an outcome of a set of various policies aimed at transforming the world towards greater interdependence and integration.

✘ D. Globalisation is an outcome of trading policies that aim to transform the world towards greater interdependence and integration.

Q.116 Which of the following plant components is/are tasked with conveying water and nutrients from the roots to other parts of the plant?

Ans

✔ A. Xylem

✘ B. Epidermis

✘ C. Phloem

✘ D. Stomata

Q.117 In which of the following years did the Britishers establish their first factory in Bengal?

Ans

✔ A. 1651

✘ B. 1605

✘ C. 1631

✘ D. 1659

Q.118 Who among the following wrote the story book 'Dollar Bahu'?

Ans

✘ A. Prasanna Kumar Acharya

✔ B. Dr Sudha Murty

✘ C. EB Havell

✘ D. Aravind Adiga

Q.119 In August 2024, Grinson George was appointed as the director of which of the following institutions?

Ans

✘ A. ICAR-Central Avian Research Institute, Izatnagar

✘ B. ICAR-Central Institute of Research on Cotton Technology, Mumbai

✘ C. ICAR-National Dairy Research Institute, Karnal

✔ D. Central Marine Fisheries Research Institute (CMFRI), Ernakulam

Q.120 Who among the following served as India's first Deputy Prime minister?

Ans

✔ A. Sardar Vallabhbhai Patel

✘ B. Jawaharlal Nehru

✘ C. Morarji Desai

✘ D. Lal Bahadur Shastri

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रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS

सी ई एन आर पी एफ - ०१/२०२४ - CEN RPF - 01/2024

Test Date	12/12/2024
Test Time	4:00 PM - 5:30 PM
Subject	RRB RPF SI 2024

*** Note**
Correct Answer will carry 1 mark per Question.
Incorrect Answer will carry 1/3 Negative mark per Question.

1. Options shown in green color with a tick icon are correct.

Section : **Arithmetic**

Q.1 If $16 \times 8 \times 700 \div \sqrt{2500} = y + 667$, then find the value of y.

Ans
- ✗ A. 1117
- ✗ B. 1115
- ✓ C. 1125
- ✗ D. 1124

Q.2 **In a cluster, 3 weavers can make 12 sarees in 4 days. Find the average number of sarees that can be made by each weaver in a day.**

Ans
- ✓ A. 1
- ✗ B. 2.5
- ✗ C. 2
- ✗ D. 1.5

Q.3 $\frac{4}{6} + \frac{4}{6} + \frac{2}{12} + \frac{4}{6} - 4 =$

Ans
- ✗ A. $-\frac{25}{12}$
- ✗ B. $-\frac{18}{12}$
- ✗ C. $-\frac{23}{12}$
- ✓ D. $-\frac{22}{12}$

Q.4 **A dishonest vendor claims that he is selling goods at their cost price. But he is weighing 918 grams for 1000 grams. What is his profit percentage (rounded off to 2 decimal places)?**

Ans
- ✓ A. 8.93
- ✗ B. 5
- ✗ C. 5.68
- ✗ D. 14.5

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Q.5 The ratio of the heights of a right circular cone and a right circular cylinder is 3 : 8 and the ratio of the radii of their bases is 8 : 5. If the volume of the cylinder is 400 cm^3, then the volume (in cm^3) of the cone is:

Ans

✗ A. 134

✗ B. 124

✗ C. 131

✓ D. 128

Q.6 LCM and HCF of two numbers are 108 and 9 respectively. If one of the numbers is 36, then find the other number.

Ans

✗ A. 25

✓ B. 27

✗ C. 30

✗ D. 28

Q.7 $\frac{7}{8}, \frac{3}{34}, \frac{21}{81}, \frac{75}{76}$

Ans

✗ A. $\frac{21}{81}$

✗ B. $\frac{7}{8}$

✗ C. $\frac{3}{34}$

✓ D. $\frac{75}{76}$

Q.8 A shopkeeper sells an item for ₹583.2 after giving two successive discounts of 25% and 40% on its marked price. Had he not given any discount, he would have earned a profit of 62%. What is the cost price (in ₹) of the item?

Ans

✗ A. 838

✗ B. 824

✓ C. 800

✗ D. 831

Q.9 Three partners invested in a business in the ratio 2:7:8. They invested their capitals for 4 months, 1 months and 10 months, respectively. What was the ratio of their profits?

Ans

✗ A. 7:7:80

✓ B. 8:7:80

✗ C. 10:7:80

✗ D. 6:7:80

Q.10 Suman invested a sum of ₹8000 at 5% per annum compound interest, componded annually. If she received an amount of ₹9261 after n years, the value of n is:

Ans

✗ A. 2.79999995231628

✓ B. 3

✗ C. 3.5

✗ D. 4

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Q.11 Isha and Anshu together invested ₹44300 in a business. At the end of the year, out of a total profit of ₹7000, Isha's share was ₹1400. What was the investment of Anshu?

Ans

✗ A. ₹35190

✗ B. ₹33845

✓ C. ₹35440

✗ D. ₹37060

Q.12 The sides of a triangle are 16 cm, 30 cm, and 34 cm. What is its area? (in cm^2)

Ans

✓ A. 240

✗ B. 225

✗ C. 257

✗ D. 270

Q.13 Three partners invested in a business in the ratio 6:3:2. They invested their capitals for 7 months, 4 months and 3 months, respectively. What was the ratio of their profits?

Ans

✓ A. 7:2:1

✗ B. 8:2:1

✗ C. 6:2:1

✗ D. 10:2:1

Q.14 A can is completely filled with milk. 6 litre of milk is taken out of the can and is filled with water. This operation is performed four more times. Now, the ratio of milk and water in the can is 32 : 211. What is the volume of the can?

Ans

✗ A. 21 litre

✗ B. 15 litre

✗ C. 20 litre

✓ D. 18 litre

Q.15 The smallest natural number which is divisible by 15, 60, 6 and 17 is:

Ans

✓ A. 1020

✗ B. 1065

✗ C. 1030

✗ D. 1106

Q.16 If 25% of a number is added to 72, then the result is the same number. 70% of the same number is:

Ans

✗ A. 37.2

✗ B. 97.2

✓ C. 67.2

✗ D. 87.2

Q.17 Two trains of equal length are running on parallel lines in the same direction at speeds of 101 km/h and 65 km/h. The faster train passes the slower train in 30 seconds. The length of each train is:

Ans

✗ A. 152 meters

✓ B. 150 meters

✗ C. 137 meters

✗ D. 155 meters

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Q.18 **A shopkeeper lists the price of a fan at 25% above its cost price and offers a 16% discount on its list price. If he earns a profit of ₹141, then what is the list price (in ₹) of the fan?**

Ans

✔ A. 3525

✘ B. 3268

✘ C. 3321

✘ D. 3305

Q.19 **Raghav's average earning per month in the first three months of a year was ₹22560. In April, his earning was 50% more than the average earning in the first three months. If his average earning per month for the whole year is ₹90078, then what will be Raghav's average earning (in ₹) per month from May to December?**

Ans

✔ A. 122427

✘ B. 122428

✘ C. 122423

✘ D. 122430

Q.20 **A train runs at a speed of 96 kmph to cover a distance of 288 km and then at a speed of 126 kmph to cover a distance of 252 km. Find the average speed of the train for the entire distance.**

Ans

✘ A. 90 kmph

✔ B. 108 kmph

✘ C. 86 kmph

✘ D. 158 kmph

Q.21 $\frac{(a^8 \times b^6 \times c^9)}{(a^4 \times b^9 \times c^9)}$ in simplified form is:

Ans

✘ A. $(a^{-6}) \times (b^{-1}) \times (c^6)$

✘ B. $(a^{10}) \times (b^{-1}) \times (c^{-4})$

✔ C. $(a^4) \times (b^{-3}) \times (c^0)$

✘ D. $(a^{-7}) \times (b^{-8}) \times (c^1)$

Q.22 **A man walks to a viewpoint and returns to the starting point by his car maintaining constant speed and thus takes a total time of 6 hours 45 minutes. He would have gained 4 hours by driving both ways. How long would it have taken for him to walk both ways with same walking speed?**

Ans

✘ A. 11 hours 15 minutes

✔ B. 10 hours 45 minutes

✘ C. 10 hours 30 minutes

✘ D. 9 hours 45 minutes

Q.23 **A sum, when invested at 10% simple interest per annum, amounts to ₹9600 after 2 years. What is the simple interest (in ₹) on the same sum at the same rate in 1 year?**

Ans

✘ A. 400

✘ B. 1600

✔ C. 800

✘ D. 3200

Q.24 **A number when increased by 50 %', gives 3930. The number is:**

Ans

✘ A. 7860

✘ B. 1310

✔ C. 2620

✘ D. 5240

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Q.25 The average price of three items of furniture is Rs 15885. If their prices are in the ratio 3:5:7, the price of the costliest item (in Rs) is

Ans

✗ A. 5295

✗ B. 3177

✓ C. 22239

✗ D. 7413

Q.26 The table below shows the profit earned by five friends in four different years. Study the table carefully to answer the question that follows.

Friends	2020	2021	2022	2023
Alex	9310	7250	6523	3546
Balaji	8240	7500	6542	2563
Chand	7560	6540	5140	2580
Dinesh	3524	6000	6780	3870
Elena	4260	9170	5010	6520

Find the amount which when lent on compound interest at 15% interest being compounded annually for 2 years, gives total interest equal to profit earned by Chand in 2023.

Ans

✓ A. ₹8,000

✗ B. ₹9,000

✗ C. ₹6,000

✗ D. ₹7,000

Q.27 During sale, Raghav bought a notebook marked for ₹100 at 53% discount and a pen marked for ₹40 at 85% discount. How much (in ₹) did he save due to sale?

Ans

✗ A. 85

✓ B. 87

✗ C. 89

✗ D. 90

Q.28 The LCM of 27, 48, 276 and 368 is:

Ans

✗ A. 9988

✗ B. 9927

✗ C. 9855

✓ D. 9936

Q.29 At what rate per cent per annum will a certain sum of money multiply itself by 97 times in 2 years, the interest being compounded annually? [Give your answer correct to 1 decimal place.]

Ans

✗ A. 881.8

✗ B. 884.6

✗ C. 887.2

✓ D. 884.8

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Q.30 **Vishal covers 104 km in a boat in 30 hours against the stream and he takes 12 hours with the stream then find the speed of the stream?**

Ans

✔ A. 2.6 km/h

✘ B. 11.35 km/h

✘ C. 7.52 km/h

✘ D. 6.65 km/h

Q.31 **LCM and HCF of two numbers are 180 and 12 respectively. If one of the numbers is 36, then find the other number.**

Ans

✔ A. 60

✘ B. 58

✘ C. 62

✘ D. 61

Q.32 **The average price of three items of furniture is Rs 15975. If their prices are in the ratio 3:5:7, the price of the costliest item (in Rs) is**

Ans

✔ A. 22365

✘ B. 5325

✘ C. 3195

✘ D. 7455

Q.33 $\frac{4}{9}, \frac{4}{26}, \frac{56}{71}, \frac{28}{81}$

Ans

✘ A. $\frac{4}{26}$

✔ B. $\frac{56}{71}$

✘ C. $\frac{28}{81}$

✘ D. $\frac{4}{9}$

Q.34 **Tarika has a decorative wall – hanging in the shape of a regular hexag**

(Take $\sqrt{3} = 1.7$)

Ans

✔ A. 255

✘ B. 265

✘ C. 250

✘ D. 260

Q.35 **The smallest 1-digit number to be added to the 6-digit number 638970 so that it is completely divisible by 11 is:**

Ans

✘ A. 4

✘ B. 5

✔ C. 9

✘ D. 6

Section : **General Intelligence and Reasoning**

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Q.36 **35 is related to 42 following a certain logic. Following the same logic, 80 is related to 96. To which of the following is 65 related, following the same logic?**
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting /multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

Ans
- ✗ A. 72
- ✓ B. 78
- ✗ C. 76
- ✗ D. 84

Q.37 **Seven people, B, C, D, E, F, G and Q, are sitting around a circular table facing the centre of the table. D sits fourth to the right of B. Only D sits between Q and E. Only F sits between B and E. E sits third to the left of G. How many people sit between F and C when counted from the right of F?**

Ans
- ✗ A. Four
- ✓ B. Two
- ✗ C. One
- ✗ D. Three

Q.38 **Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?**
(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans
- ✗ A. JGE
- ✗ B. XUS
- ✓ C. AYV
- ✗ D. LIG

Q.39 **If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 1378564, what will be difference between the highest and lowest digits in the new number thus formed?**

Ans
- ✓ A. 6
- ✗ B. 8
- ✗ C. 2
- ✗ D. 4

Q.40 **In a certain code language, 'WIDE' is coded as '6879' and 'DOGS' is coded as '4318'. What is the code for 'D' in that language?**

Ans
- ✗ A. 1
- ✓ B. 8
- ✗ C. 7
- ✗ D. 4

Q.41 **Refer to the given letter, number, symbol series and answer the question that follows.**

(Left) 5 4 D * S R + 6 3 % 7 Y # K E G 2 C & T @ (Right)

How many such numbers are there, that are immediately preceded by a letter and also immediately followed by a symbol?

Ans
- ✗ A. 3
- ✓ B. 0
- ✗ C. 2
- ✗ D. 1

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Q.42 **C is the son of F. F is the brother of E. E is the son of G. G is the wife of H. How is C related to H?**

Ans

✗ A. Son

✗ B. Son's daughter

✓ C. Son's son

✗ D. Son's wife

Q.43 **All 38 people are standing in a row facing north. Vikash is 18th from the right end while Kerisha is 12th from the left end. How many people are there between Vikash and Kerisha?**

Ans

✗ A. 5

✗ B. 7

✓ C. 8

✗ D. 6

Q.44 **In a certain code language, 'SKEW' is coded as '1836' and 'WOKE' is coded as '6283'. What is the code for 'O' in the given code language?**

Ans

✗ A. 8

✓ B. 2

✗ C. 6

✗ D. 3

Q.45 **A, B, C, D, E, F and G sit around a circular table facing centre. Only three people sit between A and C when counted from the left of A. Only three people sit between E and G when counted from the right of G.B sits to the immediate right of E. D is an immediate neighbour of G as well as C. How many people sit between B and F when counted from the right of F?**

Ans

✗ A. 3

✗ B. 4

✓ C. 1

✗ D. 2

Q.46



Ans

✓ A. ꟻ ʞ И Σ Ↄ V

✗ B. ꟻ ʞ И Z Ↄ V

✗ C. k P И Σ Ↄ V

✗ D. ꟻ ʞ И Σ V C

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Q.47 **A, B, C, D, E and F live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it, number 2 and so on till the topmost floor is numbered 6. E lives on a floor that is a prime number. The product of the floors on which E and C live is 8. F lives immediately above A. The sum of floors on which C and B live is 7. How many people live between E and F?**

Ans

✗ A. 2

✓ B. 3

✗ C. 4

✗ D. 1

Q.48 **This question is based on the five, three-digit numbers given below.**
(Left) 759 843 719 857 735 (Right)
(Example- 697 – First digit = 6, second digit = 9 and third digit = 7)
NOTE - All operations to be done from left to right.
What will be the resultant if the second digit of the highest number is added to the second digit of the lowest number?

Ans

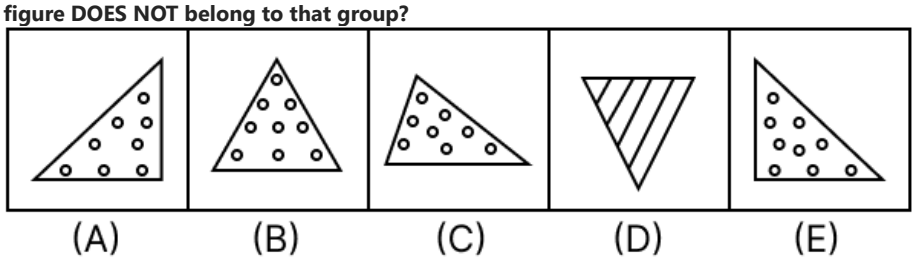
✗ A. 5

✓ B. 6

✗ C. 7

✗ D. 4

Q.49 **Four of the following five figures are alike in a certain way and thus form a group. Which figure DOES NOT belong to that group?**



Ans

✗ A. B

✓ B. D

✗ C. E

✗ D. C

Q.50 **Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of :: ?**

: LFI :: SMP : %

Ans

✓ A. # = PJM, % = OIL

✗ B. # = RTM, % = MKL

✗ C. # = BJM, % = LPI

✗ D. # = GHT, % = LJH

Q.51 **Which numbers should come in place of the question mark (?) in the same sequence to make the series logically complete?**

7 24 58 126 262 ?

Ans

✓ A. 534

✗ B. 593

✗ C. 492

✗ D. 484

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Q.52 **S is the wife of D. D is the brother of F. F is the mother of G. G is the father of H. How is S related to H?**

Ans

✔ A. Father's mother's brother's wife

✘ B. Father's father's brother's wife

✘ C. Mother's father's brother's wife

✘ D. Mother's mother's brother's wife

Q.53 **Refer to the following number, symbol series and answer the question that follows. Counting to be done from left to right only.**

(Left) 2 & 4 6 % 7 $ & 1 # 3 Ω @ 8 * £ 5 9 (Right)

How many such symbols are there each of which is immediately preceded by a number and also immediately followed by another number?

Ans

✔ A. More than two

✘ B. None

✘ C. Two

✘ D. One

Q.54 **Select the triad that follows the same pattern as the one followed by the two triads given below. Both triads follow the same pattern.**

KG-NI-PS
NJ-QL-SV

Ans

✘ A. RM-TP-VZ

✔ B. QM-TO-VY

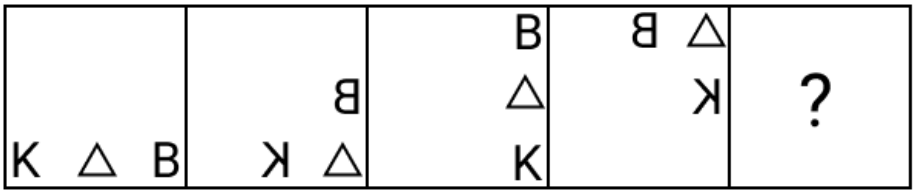
✘ C. QM-TO-VZ

✘ D. RM-TO-VZ

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Q.55



Ans

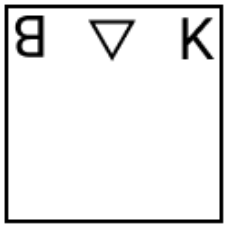
✔ A.



✘ B.



✘ C.



✘ D.



Q.56 **23 is related to 21.7 following a certain logic. Following the same logic, 29.4 is related to 28.1. To which of the following is 26.8 related, following the same logic?**

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

Ans

✘ A. 24.5

✘ B. 25.1

✘ C. 25.7

✔ D. 25.5

Q.57 **Select the term from among the given options that can replace the question mark (?) in the following series.**

RXU 34 TUQ 23 VRM 12 XOI 1 ?

Ans

✔ A. ZLE -10

✘ B. ZFE -15

✘ C. XKE -14

✘ D. VNT -13

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Q.58 **Naman starts from Point A and drives 8 km towards East. He then takes a right turn, drives 5 km, turns right and drives 10 km. He then takes a right turn and drives 12 km. He takes a final right turn, drives 2 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degree turns only unless specified.)**

Ans

✗ A. 7 km to the North

✗ B. 6 km to the South

✓ C. 7 km to the South

✗ D. 6 km to the North

Q.59 **What should come in place of the question mark (?) in the given series based on the English alphabetical order?**

SVX QTV ORT MPR ?

Ans

✗ A. KNO

✓ B. KNP

✗ C. KMP

✗ D. KMO

Q.60 **Based on the English alphabetical order, three of the following four are alike in a certain way and thus form a group. Which is the one that DOES NOT belong to that group?**

Ans

✗ A. AVF

✓ B. JFO

✗ C. MHR

✗ D. UPZ

Q.61 **In a certain code language, 'believe in yourself' is coded as 'mb tk jb' and 'in the middle' is coded as 'ab jb wt'. How is 'in' coded in the given language?**

Ans

✗ A. tk

✗ B. ab

✓ C. jb

✗ D. mb

Q.62 **Y, X, D, E, U, G and P have different ages. X is younger than U. Only Y is elder than G. Only one person is aged between X and G. D is elder than E but younger than P. Who is the third youngest?**

Ans

✗ A. D

✗ B. U

✓ C. P

✗ D. G

Q.63 **Based on the English alphabetical order, three of the following four letter cluster pairs are alike in a certain way and thus form a group. Which is the one that DOES NOT belong to that group?**

Ans

✓ A. EZ : DX

✗ B. HC : FA

✗ C. BW : ZU

✗ D. UP : SN

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Q.64 **Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.**

Statements:
All spoons are forks.
All forks are jars.
Some jars are plates.

Conclusions:
(I): Some forks are plates.
(II): Some spoons are plates.

Ans
- ✗ A. Both conclusions I and II follow
- ✗ B. Only conclusion II follows
- ✗ C. Only conclusion I follows
- ✓ D. Neither conclusion I nor II follows

Q.65 **Each of the digits in the number 7832145 is arranged in ascending order from left to right. What will be the sum of the digits which are second from the left and second from the right in the new number thus formed?**

Ans
- ✗ A. 8
- ✗ B. 6
- ✗ C. 10
- ✓ D. 9

Q.66 **If 'P' stands for '×' , 'Q' stands for '÷', 'R' stands for '−' and 'S' stands for '+' , what will come in place of the question mark '?' in the following equation?**
(32 S 32) S (24 S 24) P 2 R 60 S 108 Q 2 = ?

Ans
- ✗ A. 150
- ✗ B. 190
- ✓ C. 154
- ✗ D. 170

Q.67 **Stu starts from Point A and drives 31 km towards south. He then takes a right turn, drives 36 km, turns right and drives 11 km. He then takes a right turn and drives 12 km. He then takes a right turn, drives 16 km, turns left and drives 9 km. He takes a final left turn, drives 36 km and stops at Point P. How far (the shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90° turns only, unless specified.)**

Ans
- ✗ A. 17 km towards south
- ✓ B. 15 km towards east
- ✗ C. 11 km towards east
- ✗ D. 13 km towards south

Q.68 **Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of ::?**

: AGJ :: GMP : %

Ans
- ✗ A. # = WYF; % = KQT
- ✗ B. # = WCF; % = KQI
- ✗ C. # = XCF; % = KQT
- ✓ D. # = WCF; % = KQT

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Q.69 **Seven boxes O, P, Q, R, S, T and D are kept one over the other but not necessarily in the same order. Only three boxes are kept above T. Only one box is kept between O and T. Only three boxes are kept between O and D. D is kept at some place above T. P is kept immediately below D. S is kept at one of the places above R. Q is not kept immediately above or below O. How many boxes are kept between Q and R?**

Ans

✔ A. Five

✘ B. One

✘ C. Three

✘ D. Four

Q.70 **Refer to the following letter, number and symbol series and answer the question that follows. Counting to be done from left to right only.**

(Left) Y # 3 R 6 C & T % 7 2 K & 5 G E * S D 4 @ (Right)

How many such letters are there which are immediately preceded by a symbol and also immediately followed by a number?

Ans

✘ A. 2

✘ B. 3

✔ C. 0

✘ D. 1

Section : **General Awareness**

Q.71 **Which initiative was launched by the Union Education Minister to promote digital skill development among rural youth, particularly women, in 2023?**

Ans

✘ A. Digi-Skills

✘ B. Skills on the Go

✔ C. Skills on Wheels

✘ D. Digi-Skill Drive

Q.72 **During which of the following seasons do the Southwest Monsoon winds enter the Indian Peninsula?**

Ans

✘ A. Winter

✘ B. Summer

✔ C. Rainy Season

✘ D. Post-Monsoon

Q.73 **'Nada' is a musical sound in the Carnatic Classical Music, which is of two kinds; 'Ahata' and '_____'**

Ans

✘ A. Lohaja

✘ B. Charmaja

✘ C. Shariraja

✔ D. Anahata

Q.74 **Which of the following winds govern the climate of India during winter?**

Ans

✔ A. Northeast trade winds

✘ B. Northeast monsoon winds

✘ C. Westerlies

✘ D. Southwest monsoon winds

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Q.75 **If the court finds that a person is holding office but not entitled to hold that office, it issues the writ of _____ and restricts that person from acting as an office holder.**

Ans

✗ A. Prohibition

✓ B. Quo-Warranto

✗ C. Mandamus

✗ D. Habeas Corpus

Q.76 **Which of the following is NOT one of the broad objectives of NITI Aayog?**

Ans

✗ A. To design strategic and long-term policy and programme frameworks and initiatives, and monitor their progress and their efficacy

✗ B. To develop mechanisms to formulate credible plans at the village level and aggregate these progressively at higher levels

✗ C. To evolve a shared vision of national development priorities, sectors and strategies with the active involvement of the states in the light of national objectives

✓ D. To promote initiatives like Make in India, Skill India, Startup India, Standup India, etc.

Q.77 **The type of stress that acts coplanar along a given cross-section of the material is defined as _____.**

Ans

✗ A. Bulk stress

✗ B. Compressive stress

✗ C. Radial stress

✓ D. Shear stress

Q.78 **Who taught medicine in Taxila around 6th century BCE?**

Ans

✓ A. Punarvasu Atreya

✗ B. Paramhans Atreya

✗ C. Panini Atreya

✗ D. Prakrit Atreya

Q.79 **Which Article of the Indian Constitution provides for an independent Election Commission for the 'superintendence, directions and control of the electoral roll and the conduct of the elections of India?**

Ans

✗ A. Article 322

✓ B. Article 324

✗ C. Article 321

✗ D. Article 333

Q.80 **In which of the following years was Rajiv-Longowal Peace accord signed by Indian Prime Minster Rajeev Gandhi and Akali leader Harchand Singh Longowal?**

Ans

✗ A. 1986

✗ B. 1984

✗ C. 1987

✓ D. 1985

Q.81 **Which of the following states has benefited from the 'Sirhind' canal?**

Ans

✗ A. West Bengal

✓ B. Punjab

✗ C. Bihar

✗ D. Uttar Pradesh

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Q.82 **In reference to air transport of India, what is the full form of AERA?**

Ans

✗ A. Agriculture Economic Regulatory Authority

✓ B. Airports Economic Regulatory Authority of India

✗ C. Agriculture Economic Regulatory Authority of India

✗ D. Aviation Economic Regulatory Authority of India

Q.83 **Which of the following styles of Thumri singing is meant to be fairly slow and staid?**

Ans

✗ A. Assam

✓ B. Benaras

✗ C. Punjab

✗ D. Agra

Q.84 **Which of the following does the term 'household' mean according to the Census?**

Ans

✗ A. A group of related individuals living together under one roof

✗ B. A group of unrelated individuals residing in the same locality

✗ C. A group of persons engaged in common economic activities

✓ D. A group of persons who share a common kitchen and take meals together

Q.85 **Who among the following was the Architect of the building 'St. Francis Church' in Kochi?**

Ans

✗ A. William Emerson

✗ B. George Wittet

✓ C. Pedro Alvarez De Cabral

✗ D. Goerge Bush

Q.86 **How are environmental defensive expenditures classified at the aggregate level in national accounting?**

Ans

✗ A. Final consumption expenditures

✓ B. Intermediate consumption

✗ C. Capital expenditures

✗ D. Investment expenditures

Q.87 **At which of the following Air Force bases did the Indian Air Force (IAF) contingent participate in the Exercise Red Flag, 2024?**

Ans

✗ A. Nellis Air Force Base, Nevada

✗ B. Hickam Air Force Base, Hawaii

✓ C. Eielson Air Force Base, Alaska

✗ D. Andersen Air Force Base, Guam

Q.88 **Qutb ud-Din Aibak was fond of which of the following outdoor sports?**

Ans

✗ A. Wrestling

✗ B. Kabaddi

✗ C. Hockey

✓ D. Polo

Q.89 **When several factors affect any [bio] chemical process, Law of Limiting Factors comes into effect. This law is given by:**

Ans

✗ A. Engelmann

✓ B. Blackman

✗ C. Priestley

✗ D. Calvin

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Q.90 **Which of the following articles of Indian Constitution deals with the executive power of the Union?**

Ans
- ✔ A. Article 53
- ✘ B. Article 52
- ✘ C. Article 54
- ✘ D. Article 55

Q.91 **As a reaction to the Muslim fundamentalism, the Hindu Mahasabha was founded in which of the following years?**

Ans
- ✔ A. 1915
- ✘ B. 1917
- ✘ C. 1911
- ✘ D. 1920

Q.92 **Moved by the Swadeshi movement, _____ painted his famous image of Bharat Mata in 1905.**

Ans
- ✔ A. Abanindranath Tagore
- ✘ B. Bankim Chandra chatterjee
- ✘ C. Surendranath Banerjee
- ✘ D. Anand Mohan Bose

Q.93 **Who among the following established the Atmiya Sabha in 1814?**

Ans
- ✘ A. Debendranath Tagore
- ✘ B. Keshub Chandra Sen
- ✔ C. Raja Rammohan Roy
- ✘ D. Ishwarchandra Vidyasagar

Q.94 **Who among the following is the Chairman of the Defence Research and Development Organisation (DRDO) as on December, 2023?**

Ans
- ✘ A. Dr Y Sreenivas Rao
- ✘ B. Dr Upendra Kumar Singh
- ✘ C. Dr B K Das
- ✔ D. Dr Samir V Kamat

Q.95 **Which of the following schemes was launched by Rajnath Singh to promote innovations in critical and strategic defence technologies, during DefConnect 2024 in New Delhi on 4 March 2024?**

Ans
- ✘ A. STUTI
- ✔ B. ADITI
- ✘ C. SMRITI
- ✘ D. SAMSKRUTI

Q.96 **In November 2023, generic drugs for four rare diseases were made available in India, out of which 'Nitisinone' is used for the treatment of:**

Ans
- ✘ A. Gaucher's Disease
- ✘ B. Wilson's Disease
- ✘ C. Dravet and Lennox-Gastaut syndromes
- ✔ D. Tyrosinemia Type 1

Q.97 **How does the Indian Government finance its fiscal deficit?**

Ans
- ✘ A. By increasing taxes on essential goods
- ✘ B. By printing more currency
- ✘ C. By reducing subsidies
- ✔ D. By borrowing from domestic and international sources

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Q.98 **The Indian men's hockey team beat the team of which country to win the bronze medal at the Paris 2024 Olympics?**

Ans

✗ A. Belgium

✓ B. Spain

✗ C. Australia

✗ D. Germany

Q.99 **Which part of the Indian Constitution is related to citizenship?**

Ans

✗ A. Part VI

✗ B. Part III

✓ C. Part II

✗ D. Part IV

Q.100 **A method for measuring atmospheric pressure was first devised by ____.**

Ans

✗ A. Bernoulli

✗ B. Archimedes

✓ C. Torricelli

✗ D. Pascal

Q.101 **Industrial Policy Resolution, 1956 was adopted in which of the following five-year plans?**

Ans

✗ A. 1. 4th Five-Year Plan

✓ B. 2. 2nd Five-Year Plan

✗ C. 3. 1st Five-Year Plan

✗ D. 4. 3rd Five-Year Plan

Q.102 **What is the primary function of development banks in the context of India's industrial growth?**

Ans

✗ A. Their sole function is to manage the country's foreign exchange reserves.

✗ B. They serve as regulatory bodies to enforce industrial standards.

✗ C. They are involved only in short-term consumer lending.

✓ D. Development banks provide long-term financing and support for industrial projects and infrastructure development.

Q.103 **Which of the following is the coverage provided by the 'Pradhan Mantri Suraksha Bima Yojana (PMSBY)' in case of partial disability?**

Ans

✗ A. ₹5 lakhs

✓ B. ₹1 lakh

✗ C. ₹2 lakhs

✗ D. ₹50,000

Q.104 **In which language is the book 'Amar Jiban' written?**

Ans

✗ A. English

✗ B. Urdu

✓ C. Bengali

✗ D. Hindi

Q.105 **Which adulterant is added to increase the solids-not-fat (SNF) content in milk and the yield of dairy products?**

Ans

✓ A. Maltodextrin

✗ B. Potassium bicarbonate

✗ C. Melamine

✗ D. Hydrogen peroxide

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Q.106 **The Ganga-Brahmaputra-Meghna system is composed of which of the following main sub-basins?**

Ans

✗ A. Bhagirathi and Yamuna

✗ B. Yamuna and Ramganga

✗ C. Alaknanda and Gandak

✓ D. Bhagirathi and Alaknanda

Q.107 **Quwwat-al-islam mosque is nearest to which of the following historical monuments?**

Ans

✓ A. Qutub Minar

✗ B. Humayun Tomb

✗ C. Jama Masjid

✗ D. Tughlakabad Fort

Q.108 **The Central Goods and Services Tax (Second Amendment) Bill, 2023 increased the age limit for the president of the Tribunal from _____.**

Ans

✗ A. 65 to 67 years

✗ B. 65 to 70 years

✓ C. 67 to 70 years

✗ D. 60 to 65 years

Q.109 **Which of the following is NOT a function of the Governor of the State?**

Ans

✗ A. Nomination of members to the State Legislative Council

✗ B. Assenting to bills passed by the State Legislature

✗ C. Appointing the Chief Minister

✓ D. Appointing the District Collectors

Q.110 **Which of the following Articles of the Indian Constitution deals with the administration of Union Territories?**

Ans

✓ A. Article 239

✗ B. Article 255

✗ C. Article 245

✗ D. Article 260

Q.111 **Which of the following periods was considered as the second phase of the Green Revolution in India?**

Ans

✗ A. 1960s to 1970s

✓ B. Mid-1970s to mid-1980s

✗ C. 1970s to 1980s

✗ D. Mid-1960s to mid-1970s

Q.112 **Who was serving as the Managing Director of the International Monetary Fund (IMF) since 1 October 2019 and has been selected by the IMF's Executive Board to serve for a second five-year term, starting 1 October 2024?**

Ans

✗ A. Antoinette Sayeh

✗ B. Kenji Okamura

✗ C. Gita Gopinath

✓ D. Kristalina Georgieva

Q.113 **Which of the following games made its maiden participation at National Games 2023?**

Ans

✗ A. Squash

✓ B. Beach Handball

✗ C. Yachting

✗ D. Wushu

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Q.114 BharatGen is a key initiative of Ministry of Science & Technology, launched in October 2024. Which of the following statements is true about this initiative?

Ans

✗ A. It aims to identify dark patterns in public distribution systems.

✗ B. It is focused on making India self-reliant in terms of classical computing.

✓ C. It focuses on developing a suite of foundational models in language, speech and computer vision.

✗ D. It is a key initiative focused on fifth-generation bioethanol.

Q.115 Which sensitive dye turns yellow in the presence of acid with pH between 6.0 – 7.6?

Ans

✗ A. Thymolphthalein

✓ B. Bromothymol blue

✗ C. Methyl orange

✗ D. Alizarin yellow R

Q.116 Which of the following international sports event was NOT held in the year 2023?

Ans

✓ A. Commonwealth Games

✗ B. ICC Mens's Cricket World Cup

✗ C. Asian Games

✗ D. World Wrestling Championship

Q.117 Which of the following is also known as congenital ovarian hypoplasia syndrome which is found only in females?

Ans

✗ A. Usher syndrome

✗ B. Ehlers-Danlos syndrome

✓ C. Turner syndrome

✗ D. Klinefelter syndrome

Q.118 In 1309, who invaded the Kakatiya kingdom?

Ans

✗ A. Vir Pandya

✓ B. Malik Kafur

✗ C. Sunder Pandya

✗ D. Ballala Deva

Q.119 Which of the following is the primary reason for the high literacy rate in Kerala?

Ans

✗ A. Because of industrial development

✗ B. Because of high population density

✓ C. Because of effective literacy programmes and emphasis on education

✗ D. Because of large number of universities

Q.120 Who assumed charge as Minister of Earth Sciences in June 2024 in the newly formed union cabinet?

Ans

✓ A. Jitendra Singh

✗ B. Jadhav Prataprao Ganpat Rao

✗ C. L Murugan

✗ D. Virendra Kumar

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रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS

सी ई एन आर पी एफ - ०१/२०२४ - CEN RPF - 01/2024

Test Date	13/12/2024
Test Time	9:00 AM - 10:30 AM
Subject	RRB RPF SI 2024

*** Note**
Correct Answer will carry 1 mark per Question.
Incorrect Answer will carry 1/3 Negative mark per Question.

1. Options shown in green color with a tick icon are correct.

Section : **Arithmetic**

Q.1 **The smallest 1-digit number to be added to the 6-digit number 459039 so that it is completely divisible by 11 is:**

Ans
- ✗ A. 3
- ✗ B. 6
- ✗ C. 5
- ✓ D. 2

Q.2 **Given that $69^{0.07} = x$, $69^{0.67} = y$ and $x^z = y^7$, then the value of z is close to:**

Ans
- ✗ A. 67.51
- ✓ B. 67
- ✗ C. 66.87
- ✗ D. 69.08

Q.3 $\frac{5}{9}, \frac{6}{21}, \frac{15}{73}, \frac{18}{82}$

Ans
- ✓ A. $\frac{5}{9}$
- ✗ B. $\frac{18}{82}$
- ✗ C. $\frac{6}{21}$
- ✗ D. $\frac{15}{73}$

Q.4 **Lalit's average earning per month in the first three months of a year was ₹37096. In April, his earning was 50% more than the average earning in the first three months. If his average earning per month for the whole year is ₹87305, then what will be Lalit's average earning (in ₹) per month from May to December?**

Ans
- ✗ A. 110095
- ✗ B. 110094
- ✗ C. 110089
- ✓ D. 110091

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Q.5 **Three partners invested in a business in the ratio 8:4:6. They invested their capitals for 10 months, 4 months and 12 months, respectively. What was the ratio of their profits?**

Ans

✗ A. 11:2:9

✓ B. 10:2:9

✗ C. 12:2:9

✗ D. 8:2:9

Q.6 **A man walks to a viewpoint and returns to the starting point by his car maintaining constant speed and thus takes a total time of 6 hours 15 minutes. He would have gained 2 hours by driving both ways. How long would it have taken for him to walk both ways with same walking speed?**

Ans

✗ A. 8 hours 45 minutes

✗ B. 9 hours 30 minutes

✓ C. 8 hours 15 minutes

✗ D. 7 hours 15 minutes

Q.7 **Simplify the following:**

$$[\{(-0.4)+(4.6)^2+(2.3)^2\}\div 5]\times 100$$

Ans

✗ A. 517

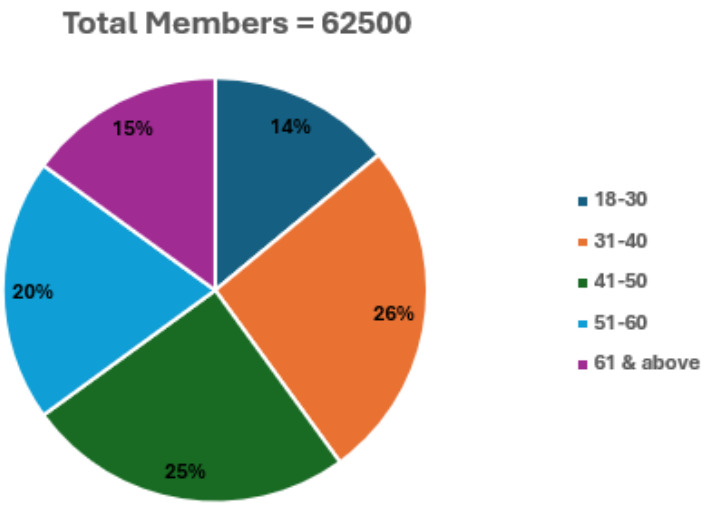
✗ B. 512

✓ C. 521

✗ D. 571

Q.8 **Study the given graph and answer the question that follows.**

The given pie chart shows the number of members in Hyderabad Gymkhana Club of various age groups.



If 24% of the total members in the age group 18-30 are aged 21 years or below, find the members in the age group 18-21.

Ans

✗ A. 1980

✗ B. 2250

✗ C. 2300

✓ D. 2100

Q.9 **During sale, Raghav bought a notebook marked for ₹12 at 25% discount and a pen marked for ₹75 at 20% discount. How much (in ₹) did he save due to sale?**

Ans

✗ A. 17

✓ B. 18

✗ C. 20

✗ D. 19

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Q.10 400 guavas were bought at ₹1420 per hundred and were sold at a profit of ₹820. Find the selling price (in ₹) per dozen of guavas.

Ans

✗ A. 210

✗ B. 185

✗ C. 205

✓ D. 195

Q.11 If the average of the three consecutive even numbers is 42, find the sum of the smallest and largest of these numbers.

Ans

✗ A. 82

✗ B. 86

✓ C. 84

✗ D. 40

Q.12 The curved surface area of a hemispherical bowl is 1232 cm^2. Find the volume (in cm^3) of the bowl. (Use $\pi = \frac{22}{7}$ and up to 2 decimal places)

Ans

✓ A. 5749.33

✗ B. 5540.33

✗ C. 5049.22

✗ D. 4049.11

Q.13 What time (in seconds) is required for a 953 m long train to cross a 532 m long tunnel, if the train travels at a speed of 54 km/h?

Ans

✗ A. 96

✗ B. 107

✗ C. 106

✓ D. 99

Q.14 Find the remainder when 49 × 51 × 54 × 37 × 123 is divided by 24.

Ans

✗ A. 8

✓ B. 6

✗ C. 10

✗ D. 4

Q.15 The average of eight numbers is 20. The average of five of these numbers is 13. The average of the remaining three numbers is

Ans

✗ A. 30.67

✓ B. 31.67

✗ C. 32.67

✗ D. 33.67

Q.16 A sum, when invested at 20% simple interest per annum, amounts to ₹2400 after 3 years. What is the simple interest (in ₹) on the same sum at the same rate in 1 year?

Ans

✗ A. 150

✗ B. 600

✓ C. 300

✗ D. 1200

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Q.17 *The difference between the smallest and the largest fractions among* $\frac{6}{7}, \frac{4}{8}, \frac{32}{39}, \frac{25}{27}$ *is:*

Ans

✗ A. $\frac{23}{56}$

✗ B. $\frac{23}{58}$

✓ C. $\frac{23}{54}$

✗ D. $\frac{23}{55}$

Q.18 **The population of a village was 130000. It increased by 15% in the first year and increased by 20% in the second year. Its population after two years is _____.**

Ans

✓ A. 179400

✗ B. 175500

✗ C. 149500

✗ D. 156000

Q.19 $\frac{(a^5 \times b^5 \times c^8)}{(a^8 \times b^5 \times c^1)}$ in simplified form is:

Ans

✗ A. $(a^3) \times (b^{-1}) \times (c^{-9})$

✗ B. $(a^{-6}) \times (b^{-6}) \times (c^{-6})$

✓ C. $(a^{-3}) \times (b^0) \times (c^7)$

✗ D. $(a^{-10}) \times (b^{-2}) \times (c^0)$

Q.20 **If the volume of cube is 29791 m^3, then find the total surface area of cube in m^2.**

Ans

✓ A. 5766

✗ B. 5784

✗ C. 5733

✗ D. 5794

Q.21 **Four litres of paint was required to paint the surface of a solid sphere. If 4 identical pieces were made of this solid sphere, then how many litres of paint would be required to paint all the surfaces of these 4 pieces?**

Ans

✗ A. 7

✗ B. 6

✓ C. 8

✗ D. 10

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Q.22 *The difference between the smallest and the largest fractions among* $\frac{4}{9}, \frac{3}{7}, \frac{31}{37}, \frac{12}{20}$ *is:*

Ans

✔ A. $\frac{106}{259}$

✘ B. $\frac{106}{255}$

✘ C. $\frac{106}{258}$

✘ D. $\frac{106}{261}$

Q.23 **If x varies inversely as $y^3 - 1$ and is equal to 8 when y = 3, find x when y = 6.**

Ans

✘ A. $\frac{209}{216}$

✔ B. $\frac{208}{215}$

✘ C. $\frac{208}{216}$

✘ D. $\frac{210}{215}$

Q.24 **A 976 m long train crosses a man walking at a speed of 3.5 km/h in the opposite direction in 18 seconds. What is the speed (in km/h) of the train?**

Ans

✔ A. 191.6

✘ B. 192.6

✘ C. 189.9

✘ D. 188.7

Q.25 **The average of 7 numbers is 43. If each number is decreased by 3, what will the new average be?**

Ans

✘ A. 7

✘ B. 43

✔ C. 40

✘ D. 37

Q.26 By selling an article at $\frac{4}{10}$ of its actual selling price, Nirbhay incurs a l

Ans

✘ A. 81.3%

✔ B. 82.6%

✘ C. 84.4%

✘ D. 83.4%

Q.27 **If 25% of a number is added to 66, then the result is the same number. 80% of the same number is:**

Ans

✘ A. 100.4

✘ B. 90.4

✔ C. 70.4

✘ D. 40.4

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Q.28 Suraj covers 598 km in a boat in 39 hours against the stream and he takes 12 hours with the stream then find the speed of the stream?

Ans

✗ A. 16.23 km/h

✓ B. 17.25 km/h

✗ C. 10.58 km/h

✗ D. 15.63 km/h

Q.29 $0.00\overline{1} + 0.0\overline{1} + 0.\overline{1}$

Ans

✗ A. $\frac{1211}{9990}$

✓ B. $\frac{1211}{9900}$

✗ C. $\frac{1211}{9999}$

✗ D. $\frac{1212}{9900}$

Q.30 A shopkeeper sells an item for ₹855.4 after giving two successive discounts of 90% and 75% on its marked price. Had he not given any discount, he would have earned a profit of 40%. What is the cost price (in ₹) of the item?

Ans

✗ A. 24471

✓ B. 24440

✗ C. 24427

✗ D. 24400

Q.31 Trupti and Suhani invest in a business in the ratio 2 : 6. If total profit is Rs. 2480, then what is difference between the profit (in Rs.) of Trupti and Suhani?

Ans

✗ A. 1340

✗ B. 1190

✗ C. 1390

✓ D. 1240

Q.32 Manav's average earning per month in the first three months of a year was ₹41944. In April, his earning was 50% more than the average earning in the first three months. If his average earning per month for the whole year is ₹63849, then what will be Manav's average earning (in ₹) per month from May to December?

Ans

✗ A. 72179

✓ B. 72180

✗ C. 72182

✗ D. 72175

Q.33

Find the value of $76^{-15} \div 76^{4} \times 76^{-5}$

Ans

✗ A. $1.\ 76^{-31}$

✗ B. $2.\ 76^{-22}$

✗ C. $3.\ 76^{-20}$

✓ D. $4.\ 76^{-24}$

Q.34 Anushka invested a sum of ₹6400 at 5% per annum compound interest, componded annually. If she received an amount of ₹7056 after n years, the value of n is:

Ans

✗ A. 3

✗ B. 1.20000004768372

✓ C. 2

✗ D. 2.40000009536743

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Q.35 **Utsavi invested a sum of ₹2000 at 15% per annum compound interest, componded annually. If she received an amount of ₹2645 after n years, the value of n is:**

Ans

✗ A. 1.6

✗ B. 2.5

✗ C. 3

✓ D. 2

Section : **General Intelligence and Reasoning**

Q.36 **Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number results in the second number. Similarly, certain mathematical operation(s) on the second number results in the third number and so on. Which of the given options follows the same set of operations as in the given sets? (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting /multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)**
8 - 10 - 20 - 22 ; 5 - 7 - 14 - 16

Ans

✗ A. 2 - 4 - 6 - 10

✗ B. 9 - 11 - 22 - 26

✓ C. 13 - 15 - 30 - 32

✗ D. 14 - 16 - 32 - 38

Q.37 **If 'A' stands for '÷', 'B' stands for '×', 'C' stands for '+' and 'D' stands for '−', what will be come in place of question mark '?' in the following equation?**
28 C 22 D 32 B 2 A 8 = ?

Ans

✓ A. 42

✗ B. 44

✗ C. 43

✗ D. 40

Q.38 **Based on the English alphabetical order, three of the following four letter cluster pairs are alike in a certain way and thus form a group. Which is the one that DOES NOT belong to that group?**

Ans

✓ A. AU : YT

✗ B. TO : RM

✗ C. GB : EZ

✗ D. OJ : MH

Q.39 **Tushar starts from Point A and drives 11 km towards the South. He then takes a right turn, drives 8 km, turns right and drives 14 km. He then takes a right turn and drives 12 km. He takes a final right turn, drives 3 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degrees turns only unless specified)**

Ans

✓ A. 4 km to the west

✗ B. 3 km to the west

✗ C. 4 km to the east

✗ D. 3 km to the east

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Q.40 **This question is based on the five, three-digit numbers given below.**

(Left) 564 245 782 432 861 (Right)

(Example- 697 – First digit = 6, second digit = 9 and third digit = 7)
(NOTE: All operations to be done from left to right.)

If all the numbers are arranged in the descending order, the position of how many numbers will remain unchanged?

Ans

✗ A. 4

✗ B. 2

✓ C. 1

✗ D. 3

Q.41 **VPMG is related to NHEY in a certain way based on the English alphabetical order. In the same way, PJGA is related to HBYS. To which of the following options is RLIC related, following the same logic?**

Ans

✗ A. JAUD

✗ B. JDUA

✓ C. JDAU

✗ D. JADU

Q.42



Ans

✗ A. ꟼ K L Ʇ Ɔ Я

✗ B. K L P Ʇ Ɔ Я

✗ C. ꟼ ⅃ ꓘ R G J

✓ D. ꟼ ⅃ ꓘ Ʇ Ɔ Я

Q.43 **Three of the following four letter-clusters are alike in a certain way and thus form a group. Which is the letter-cluster that does NOT belong to that group?**
(Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)

Ans

✗ A. ENVA

✗ B. UDLQ

✓ C. JSAE

✗ D. HQYD

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Q.44 **Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?**

(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans

✗ A. KJH

✗ B. MLJ

✓ C. GGD

✗ D. HGE

Q.45 **Seven boxes U, V, W, X, P, Q and R are kept one over the other but not necessarily in the same order.**
Only two boxes are kept below X. Only one box is kept above Q. Only one box is kept between Q and U. V is kept immediately above P. R is kept at some place below W.
How many boxes are kept between W and V?

Ans

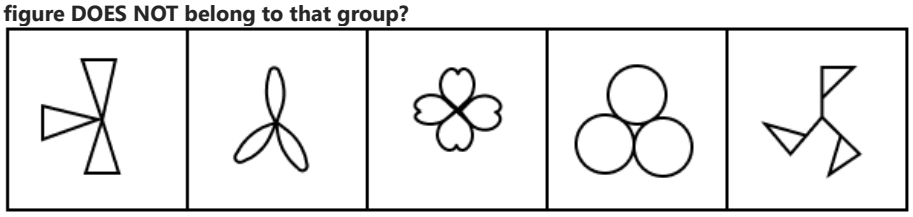
✓ A. Four

✗ B. Two

✗ C. Three

✗ D. One

Q.46 **Four of the following five figures are alike in a certain way and thus form a group. Which figure DOES NOT belong to that group?**



Ans

✓ A. C

✗ B. D

✗ C. B

✗ D. A

Q.47 **If 1 is added to each odd digit and 1 is subtracted from each even digit in the number 864172, what will be the difference between the first and last digits in the number thus formed?**

Ans

✗ A. 4

✓ B. 6

✗ C. 7

✗ D. 5

Q.48 **Seven people, D, E, F, G, H, I and T, are sitting around a circular table facing the centre of the table. Only two people sit between T and D when counted from the right of T. Only three people sit between H and F when counted from the right of F. D sits to the immediate right of F. I sits to the immediate left of G. Who sits second to the right of E?**

Ans

✗ A. I

✓ B. D

✗ C. T

✗ D. G

Q.49 **In a certain code language, 'time flies fast' is coded as 'mk tu jb' and 'fast or slow' is coded as 'tb mk ab'. How is 'fast' coded in the given language?**

Ans

✗ A. jb

✗ B. ab

✗ C. tu

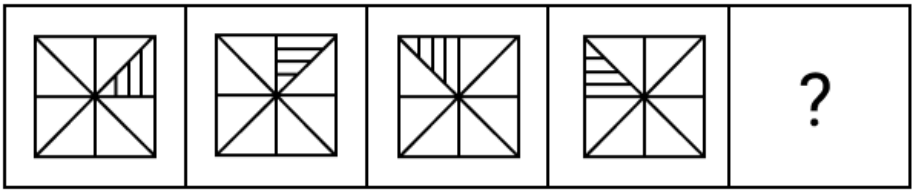
✓ D. mk

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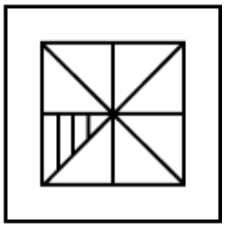
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Q.50

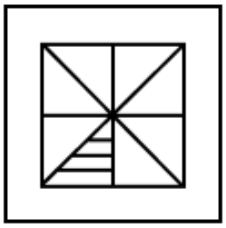


Ans

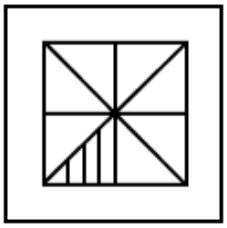
✔ A.



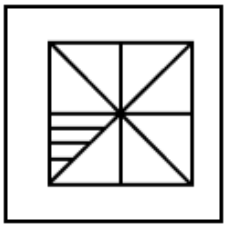
✘ B.



✘ C.



✘ D.



Q.51 **Select the pair that follows the same pattern as that followed by the two pairs given below. Both pairs follow the same pattern.**

SVG : OZC
KDY : GHU

Ans

✔ A. CLQ : YPM

✘ B. HMP : DRL

✘ C. ZWH : VBD

✘ D. PCX : LHT

Q.52 **Select the term from among the given options that can replace the question mark (?) in the following series.**

QNF -3 OLI -6 ? KHO -12 IFR -15

Ans

✔ A. MJL -9

✘ B. MJL -8

✘ C. MJL -11

✘ D. MJL -10

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Q.53 A, B, C, D, E, F and G are sitting around a circular table facing the centre. A sits third to the left of E. B sits second to the left of F. Only E sits between D and B. C is not an immediate neighbour of A. How many people sit between D and F, when counted from the left of F?

Ans

- ✗ A. 4
- ✓ B. 3
- ✗ C. 2
- ✗ D. 1

Q.54 This question is based on the five, three-digit numbers given below.

(Left) 538 745 317 153 276 (Right)

(Example- 697 – First digit = 6, second digit = 9 and third digit = 7)
(NOTE: All operations to be done from left to right.)

What will be the resultant if the third digit of the highest number is added to the second digit of the lowest number?

Ans

- ✗ A. 9
- ✓ B. 10
- ✗ C. 8
- ✗ D. 11

Q.55 Each of the digits in the number 7381465 is arranged in ascending order from left to right. The position(s) of how many digits will remain unchanged as compared to that in the original number?

Ans

- ✗ A. THREE
- ✗ B. NONE
- ✓ C. ONE
- ✗ D. TWO

Q.56 Seven boxes U, V, W, X, P, Q and R are kept one over the other but not necessarily in the same order.
Only three boxes are kept below V. Only two boxes are kept between V and U. Only P is kept above X. R is kept at some place below Q and at some place above W.
Which box is kept at the second position from the bottom?

Ans

- ✓ A. W
- ✗ B. R
- ✗ C. U
- ✗ D. V

Q.57 S is the wife of D. D is the father of F. F is the mother of G. G is the brother of H. How is S related to H?

Ans

- ✗ A. Mother's Sister
- ✗ B. Father's Mother
- ✗ C. 3. Father's Sister
- ✓ D. Mother's Mother

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Q.58 **Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusion(s) logically follow(s) from the statements.**

Statements:
All pins are lions.
Some lions are rats.
Some rats are hens.

Conclusions:
(I) Some hens are pins.
(II) Some rats are pins.

Ans
- ✔ A. Neither conclusion (I) nor (II) follows.
- ✘ B. Both conclusions (I) and (II) follow.
- ✘ C. Only conclusion (I) follows.
- ✘ D. Only conclusion (II) follows.

Q.59 **G is the mother of H. H is the mother of J. J is the brother of K. K is the son of L. How is G related to L?**

Ans
- ✘ A. Husband's mother
- ✘ B. Wife's father
- ✘ C. Wife's brother
- ✔ D. Wife's mother

Q.60 **Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.**

HFD KIG NLJ QOM ?

Ans
- ✘ A. STQ
- ✘ B. STP
- ✘ C. TSQ
- ✔ D. TRP

Q.61 **Refer to the following letter, number, symbol series and answer the question that follows.**

(Left) R % C & E 2 K 4 # 5 S * 7 D Y @ 3 6 G & T (Right)

If all the numbers are dropped from the series, which of the following will be sixth from the right?

Ans
- ✘ A. Y
- ✘ B. S
- ✘ C. *
- ✔ D. D

Q.62 **Six people, named W, X, Y, Z, T and U, each are of different ages. The age of X is 40. The age of T is two times the age of Z. The age of W is two times the age of U. The age of Z is one-fifth the age of W. The age of X is two times the age of T. If the age of U is one-third the age of Y, what is the age of Y?**

Ans
- ✘ A. 85
- ✘ B. 76
- ✘ C. 52
- ✔ D. 75

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Q.63 **A, B, C, D, E and F live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it, number 2 and so on till the topmost floor is numbered 6.**
D lives on a floor which is a prime number. The product of floors on which D and A live is 8. E lives immediately above B. The sum of floors on which A and C lives is 7. How many people live between D and E?

Ans
- ✗ A. 2
- ✗ B. 3
- ✓ C. 4
- ✗ D. 1

Q.64 **Def starts from Point A and drives 16 km towards north. He then takes a right turn, drives 7 km, turns right and drives 11 km. He then takes a left turn, drives 21 km, turns right and drives 10 km. He then takes a right turn and drives 32 km. He takes a final right turn, drives 5 km and stops at Point P. How far (the shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90° turns only, unless specified.)**

Ans
- ✗ A. 6 km towards north
- ✗ B. 2 km towards west
- ✓ C. 4 km towards east
- ✗ D. 8 km towards south

Q.65 **In a certain code language, 'APES' is coded as '6819' and 'PAGE' is coded as '6928'. What is the code for 'G' in that language?**

Ans
- ✗ A. 9
- ✗ B. 6
- ✗ C. 8
- ✓ D. 2

Q.66 **In a certain code language, 'POST' is coded as '8579' and 'SEND' is coded as '4351'. What is the code for 'S' in that language?**

Ans
- ✓ A. 5
- ✗ B. 3
- ✗ C. 7
- ✗ D. 4

Q.67 **10 is related to 35 following a certain logic. Following the same logic, 7 is related to 20. To which of the following is 25 related, following the same logic?**
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

Ans
- ✗ A. 100
- ✗ B. 140
- ✓ C. 110
- ✗ D. 120

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Q.68 **This question is based on the five, three-digit numbers given below.**
(Left) 365 742 234 567 835 (Right)

(Example: 697 – First digit = 6, second digit = 9 and third digit = 7)
(NOTE: All operations to be done from left to right.)

What will be the resultant if second digit of the highest number is added to the first digit of lowest number?

Ans
- ✔ A. 5
- ✘ B. 8
- ✘ C. 11
- ✘ D. 6

Q.69 **Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of :: ?**

: HLR :: VZF : %

Ans
- ✘ A. # = DHN; % = IDJ
- ✘ B. # = DHN; % = ZDI
- ✔ C. # = DHN; % = ZDJ
- ✘ D. # = EHN; % = ZDJ

Q.70 **Select the number from among the given options that can replace the question mark (?) in the following series.**

3 23 ? 1143 8003

Ans
- ✘ A. 166
- ✔ B. 163
- ✘ C. 174
- ✘ D. 179

Section : **General Awareness**

Q.71 **MATSYA 6000, a part of India's Samudrayaan Project, is what kind of object/instrument?**

Ans
- ✔ A. Manned submersible
- ✘ B. Oil mineral explorer
- ✘ C. Underwater autonomous vehicle
- ✘ D. Submarine

Q.72 **Which of the following is a direct impact of rural infrastructure development on the agricultural sector?**

Ans
- ✘ A. Decrease in agricultural productivity due to the diversion of resources
- ✘ B. Rural infrastructure development has no significant impact on agriculture
- ✘ C. Increased urban migration due to improved rural infrastructure
- ✔ D. Enhanced agricultural productivity through better irrigation, storage and transport facilities

Q.73 **How many sports persons received the Arjuna Awards for outstanding performances in Sports and Games 2023?**

Ans
- ✘ A. 21
- ✔ B. 26
- ✘ C. 34
- ✘ D. 31

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Q.74 **In March 2024, who among the following assumed the charge of Chairman of National Commission for Scheduled Castes (NCSC)?**

Ans
- ✗ A. Kunwar Singh
- ✗ B. Lama Lobzang
- ✗ C. Antar Singh Arya
- ✓ D. Kishor Makwana

Q.75 **Chromosome number (2n) of maize is ____.**

Ans
- ✗ A. 15
- ✗ B. 18
- ✓ C. 20
- ✗ D. 10

Q.76 **Who among the following was the last Pallava ruler?**

Ans
- ✗ A. Adityavarman
- ✓ B. Aparajitavarman
- ✗ C. Nariptunga
- ✗ D. Nandivarman

Q.77 **The general debate of the 79th session of the United Nations General Assembly started on which date?**

Ans
- ✗ A. 2 September 2024
- ✗ B. 12 September 2024
- ✗ C. 28 September 2024
- ✓ D. 24 September 2024

Q.78 **Which of the following is NOT a tributary of the Godavari river?**

Ans
- ✓ A. Kabini
- ✗ B. Purna
- ✗ C. Pravara
- ✗ D. Manjra

Q.79 **Who among the following emphasised and propagated that the 'Vedanta was the religion of all and NOT of the Hindus alone'?**

Ans
- ✓ A. Swami Vivekananda
- ✗ B. Swami Dayanand Saraswati
- ✗ C. Mahadev Govind Ranade
- ✗ D. Ishwar Chandra Vidyasagar

Q.80 **The Wildlife Protection Act, which provides the main legal framework for conservation and protection of wildlife in India, was enacted in the year:**

Ans
- ✗ A. 1974
- ✗ B. 1981
- ✗ C. 1986
- ✓ D. 1972

Q.81 **On which river system is the National Waterway 1, developed by the Indian government, built?**

Ans
- ✓ A. Ganges-Bhagirathi-Hooghly river system(from Haldia to Allahabad)
- ✗ B. 2. Kottapurma-Kollam, Udyogamandal and Champakkara canals
- ✗ C. 3. Stretches of Godavari and Krishna rivers
- ✗ D. 4. Brahmaputra river between Sadiya and Dhubri

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Q.82 **Which Article of the Indian Constitution deals with the composition of the Rajya Sabha?**

Ans

✗ A. Article 85

✗ B. Article 90

✓ C. Article 80

✗ D. Article 95

Q.83 **The portion of agricultural produce, which is sold in the market by farmers, is called _____.**

Ans

✗ A. product surplus

✓ B. marketed surplus

✗ C. wage surplus

✗ D. gross surplus

Q.84 **On which date did the Prime Minister of India Narendra Modi visit Ukraine, which was the first ever visit by an Indian Prime Minister to Ukraine since 1992?**

Ans

✗ A. 13 August 2024

✗ B. 03 August 2024

✓ C. 23 August 2024

✗ D. 30 August 2024

Q.85 **Which one of following countries is NOT included in the Citizenship (Amendment) Act, 2019?**

Ans

✗ A. Bangladesh

✗ B. Afghanistan

✓ C. Bhutan

✗ D. Pakistan

Q.86 **In March 2024, Nayab Singh Saini was sworn in as the new Chief Minister of which of the following states of India?**

Ans

✓ A. Haryana

✗ B. Madhya Pradesh

✗ C. Tamil Nadu

✗ D. Assam

Q.87 **Who among the following returned the honourary knighthood title to mark the protest against Jallianwala Bagh incident?**

Ans

✗ A. Dadabhai Naoroji

✗ B. Jawaharlal Nehru

✓ C. Rabindra Nath Tagore

✗ D. Mahatma Gandhi

Q.88 **Which of the following periods succeeds the Palaeolithic period?**

Ans

✗ A. Iron Age

✗ B. Neolithic

✓ C. Mesolithic

✗ D. Chalcolithic

Q.89 **Which of the following is the formula for the consumption function?**

Ans

✗ A. C = C̄ − cYD

✗ B. C = C̄ × cYD

✗ C. C = C̄ / cYD

✓ D. C = C̄ + cYD

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Q.90 **In which of the following years did Kanshiram Found Bahujan Samaj Party?**

Ans

✗ A. 1990

✓ B. 1984

✗ C. 1986

✗ D. 1980

Q.91 **Which of the following is commonly known as the 'Four D's disease' caused by severe deficiency of Vitamin B3?**

Ans

✓ A. Pellagra

✗ B. Beri Beri

✗ C. Goitre

✗ D. Hypocalcemia

Q.92 **Select the correct sequence of colour observed when white light gets dispersed through a prism.**

Ans

✓ A. Blue, Green, Yellow and Orange

✗ B. Green, Indigo, Orange and Red

✗ C. Blue, Indigo, Green and Yellow

✗ D. Violet, Blue, Green and Yellow

Q.93 **Who among the following was the chairman of the Constituent Assembly of India?**

Ans

✓ A. Dr. Rajendra Prasad

✗ B. Dr. B R Ambedkar

✗ C. Gopal Das Ambaidas Desai

✗ D. K M Munshi

Q.94 **Indian political activist and advocate for women's rights, _____, had unfurled the first version of the Indian national flag at the International Socialist Congress held at Stuttgart, Germany.**

Ans

✗ A. Sarojini Naidu

✓ B. Bhikaji Cama

✗ C. Sucheta Kripalani

✗ D. Annie Besant

Q.95 **From the given options, which Indian state has a higher literacy rate than the other three states as per the census of 2011?**

Ans

✗ A. Tripura

✓ B. Kerala

✗ C. Himachal Pradesh

✗ D. Mizoram

Q.96 **Who among the following historical musicians is credited with formulating the Sarali Varisa and Sapta Tala Alankaras in the Carnatic Music?**

Ans

✗ A. Muthuswami Dikshitar

✗ B. Thyagaraja

✓ C. Purandara Dasa

✗ D. Annamacharya

Q.97 **In which of the following years was 'A Brush with Life: An Autobiography' written?**

Ans

✗ A. 1856

✓ B. 1997

✗ C. 2000

✗ D. 1908

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Q.98 When was St. Francis Church building constructed in Kochi?

Ans

✗ A. 1609

✗ B. 1510

✓ C. 1503

✗ D. 1616

Q.99 Which of the following statements is NOT true about the High Altitude Pseudo Satellite (HAPS) that was successfully tested in India in February 2024?

Ans

✗ A. HAPS operate much closer to Earth, resulting in lower latency.

✗ B. It was developed by CSIR National Aerospace Laboratories.

✗ C. It does not require rocket to launch.

✓ D. The flights are carried on in the troposphere.

Q.100 In which of the following types of vegetation would we find species like ebony, mahogany, and rosewood?

Ans

✓ A. Tropical evergreen forests

✗ B. Tropical deciduous forests

✗ C. Montane forests

✗ D. Mangrove forests

Q.101 Which of the following battles was fought in the year 1191 AD?

Ans

✓ A. The First Battle of Tarain

✗ B. The First Battle of Panipat

✗ C. The Battle of Kasahrada

✗ D. The Battle of Chandawar

Q.102 Who among the following is related to ‘khayal’ in classical Hindustani music?

Ans

✗ A. Ziauddin Barani

✗ B. Abu’l Hasan al Hujwiri

✗ C. Amir Hasan Sijzi

✓ D. Amir Khusrau

Q.103 The cytoplasmic strands that connect one cell to the other are known as _____.

Ans

✗ A. Centriole

✓ B. Plasmodesmata

✗ C. Endoplasmic Reticulum

✗ D. Spindle Fibre

Q.104 Which state government launched the 'Yuva Nidhi Scheme' for providing financial aid to unemployed youth?

Ans

✗ A. Kerala

✗ B. Madhya Pradesh

✓ C. Karnataka

✗ D. Uttar Pradesh

Q.105 Poisson's equation, which is often used to describe the elastic properties of a material, is represented by which Greek letter?

Ans

✓ A. Nu

✗ B. Tau

✗ C. Epsilon

✗ D. Kappa

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Q.106 What is the nature of the 'PM Fasal Bima Yojna (PMFBY)' for the participating States/UTs and farmers?

Ans

✗ A. Mandatory for both States/UTs and also for farmers

✗ B. Voluntary for both States/UTs and also for farmers

✗ C. Voluntary for States/UTs and mandatory for farmers

✓ D. Mandatory for States/UTs and voluntary for farmers

Q.107 What is the name of the seventh Anti-Submarine Warfare Shallow Water Craft (ASW SWC) launched by the Indian Navy in October 2024?

Ans

✓ A. Abhay

✗ B. Arjun

✗ C. Akash

✗ D. Ajay

Q.108 Which law states that if a body is at rest or moving at a constant speed in a straight line, it will remain at rest or keep moving in a straight line at constant speed unless it is acted upon by a force?

Ans

✗ A. Dalton's law

✓ B. Newton's first law

✗ C. Newton's third law

✗ D. Newton's second law

Q.109 Which of the following is a secondary function of the commercial banks?

Ans

✓ A. Performing agency functions

✗ B. Advancing loans

✗ C. Opening fixed deposits

✗ D. Opening of current account deposits

Q.110 Which of the following pairs is INCORRECT with reference to dams and their related states?

Ans

✗ A. Koyna – Maharashtra

✓ B. Indira Sagar – Rajasthan

✗ C. Pong – Himachal Pradesh

✗ D. Karjan – Gujarat

Q.111 What is the main objective of Financial Inclusion?

Ans

✗ A. To extend digital banking services to the population of the country.

✗ B. To focus on opening of an account in a Nationalised Bank.

✗ C. To add every person in the country as part of the National Mission for Financial Inclusion.

✓ D. To extend financial services at reasonable cost to the large hitherto unserved population of the country.

Q.112 According to Census 2011, which northeastern state has the highest literacy rate?

Ans

✗ A. Meghalaya

✗ B. Sikkim

✓ C. Mizoram

✗ D. Tripura

Q.113 Who was considered as the viceroy of Muhammad Ghori and overall commander of the army in India?

Ans

✗ A. Nasiruddin Qabacha

✗ B. Bakhtiyar Khalji

✗ C. Taj al-Din Yildiz

✓ D. Qutbuddin Aibak

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Q.114 In which of the following years were Union Territories (UT) introduced in India?

Ans

✗ A. 1960

✗ B. 1952

✗ C. 1950

✓ D. 1956

Q.115 In October 2023, India began producing 'reference' fuel, joining a select league of nations. What is the octane number of reference fuel?

Ans

✗ A. 77

✓ B. 97

✗ C. 67

✗ D. 87

Q.116 The provision of 'Prohibition of Employment of Children in Hazardous Jobs' is reflected in which of the following Fundamental Rights of the Indian Constitution?

Ans

✗ A. Right to Constitutional Remedies

✗ B. Right to Equality

✓ C. Right against Exploitation

✗ D. Right to Freedom

Q.117 Which Indian cricket player became the Player of the Series in the two test matches cricket series against Bangladesh, played in September-October 2024?

Ans

✓ A. Ravichandran Ashwin

✗ B. Yashasvi Jaiswal

✗ C. Rishabh Pant

✗ D. Jasprit Bumrah

Q.118 Which of the following statements is INCORRECT with respect to the India's Tax Reforms Committee (TRC), 1991?

Ans

✗ A. The TRC suggested a moderate flat tax rate on long term capital gains after due indexation for inflation.

✗ B. The TRC suggested aggregation of minor's income, other than wage income, with the income of the parents.

✗ C. The committee recommended the abolition of tax concessions, rebates and allowances, under various incentives for saving schemes.

✓ D. The committee suggested a phased reduction of the corporate tax to 10% and continuation of surcharge on corporate tax.

Q.119 Which Article of the Indian Constitution is related to the appointment of 'Attorney General of India'?

Ans

✗ A. Article 73

✗ B. Article 75

✓ C. Article 76

✗ D. Article 74

Q.120 Director General Rakesh Pal, AVSM, PTM, TM is the _____ Director General of Indian Coast Guard.

Ans

✗ A. 1. 22nd

✗ B. 2. 27th

✗ C. 3. 20th

✓ D. 4. 25th

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रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS

सी ई एन आर पी एफ - ०१/२०२४ - CEN RPF - 01/2024

Test Date	13/12/2024
Test Time	12:30 PM - 2:00 PM
Subject	RRB RPF SI 2024

*** Note**
Correct Answer will carry 1 mark per Question.
Incorrect Answer will carry 1/3 Negative mark per Question.

1. Options shown in green color with a tick icon are correct.

Section : **Arithmetic**

Q.1 **Raghu completes his journey in 15 hours. He covers half the distance at 57 km/h and the rest at 78 km/h. What is the length of the journey (in Km)?**

Ans
- ✗ A. 994
- ✗ B. 980
- ✓ C. 988
- ✗ D. 989

Q.2 **The volume (in cm^3) of a wire of diameter 6 cm and length 7 m is:**

$take\ \pi = \frac{22}{7}$

Ans
- ✗ A. 20700
- ✗ B. 19500
- ✗ C. 20400
- ✓ D. 19800

Q.3 **Evaluate: 33 ÷ 11 × 3 - 3 × 3**

Ans
- ✗ A. 3
- ✓ B. 0
- ✗ C. -1
- ✗ D. 2

Q.4 **Lalit's average earning per month in the first three months of a year was ₹12544. In April, his earning was 50% more than the average earning in the first three months. If his average earning per month for the whole year is ₹41852, then what will be Lalit's average earning (in ₹) per month from May to December?**

Ans
- ✗ A. 55725
- ✓ B. 55722
- ✗ C. 55718
- ✗ D. 55719

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Q.5 **LCM and HCF of two numbers are 196 and 7 respectively. If one of the numbers is 49, then find the other number.**

Ans

✗ A. 29

✗ B. 31

✓ C. 28

✗ D. 30

Q.6 $\frac{5}{8}, \frac{5}{26}, \frac{63}{64}, \frac{44}{88}$

Ans

✗ A. $\frac{5}{26}$

✗ B. $\frac{5}{8}$

✓ C. $\frac{63}{64}$

✗ D. $\frac{44}{88}$

Q.7 **A dishonest vendor claims that he is selling goods at their cost price. But he is weighing 812 grams for 1000 grams. What is his profit percentage (rounded off to 2 decimal places)?**

Ans

✓ A. 23.15

✗ B. 24.85

✗ C. 20.91

✗ D. 26.29

Q.8 **A 135 m long train crosses a man walking at a speed of 10.6 km/h in the opposite direction in 12 seconds. What is the speed (in km/h) of the train?**

Ans

✗ A. 31.9

✗ B. 34.4

✓ C. 29.8

✗ D. 32.1

Q.9 $0.\overline{234} + 0.\overline{29}$

Ans

✗ A. $\frac{23}{90}$

✗ B. $\frac{25}{99}$

✓ C. $\frac{29}{55}$

✗ D. $\frac{29}{99}$

Q.10 **A sum, when invested at 10% simple interest per annum, amounts to ₹9360 after 2 years. What is the simple interest (in ₹) on the same sum at the same rate in 2 year?**

Ans

✓ A. 1560

✗ B. 780

✗ C. 3120

✗ D. 6240

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Q.11 During sale, Raghav bought a notebook marked for ₹15 at 80% discount and a pen marked for ₹100 at 66% discount. How much (in ₹) did he save due to sale?

Ans
- ✗ A. 80
- ✓ B. 78
- ✗ C. 75
- ✗ D. 79

Q.12 The average age of Tinku, Pinku and Rinu was 36 years and that of Pinku and Rinu was 25 years. Find the age of Tinku.

Ans
- ✗ A. 54 years
- ✗ B. 52 years
- ✓ C. 58 years
- ✗ D. 56 years

Q.13 What is a cone's total surface area if its height is 20 cm and radius is 15 cm? (Use $\pi = \frac{22}{7}$)

Ans
- ✗ A. $\frac{14860}{7}$ cm^2
- ✗ B. $\frac{14880}{7}$ cm^2
- ✓ C. $\frac{14850}{7}$ cm^2
- ✗ D. $\frac{14870}{7}$ cm^2

Q.14 Three partners invested in a business in the ratio 5:1:9. They invested their capitals for 2 months, 9 months and 11 months, respectively. What was the ratio of their profits?

Ans
- ✗ A. 13:9:99
- ✗ B. 8:9:99
- ✗ C. 9:9:99
- ✓ D. 10:9:99

Q.15 The average of 7 numbers is 53. If each number is increased by 4, what will the new average be?

Ans
- ✓ A. 57
- ✗ B. 53
- ✗ C. 7
- ✗ D. 61

Q.16 Find the volume of a hemisphere of radius 7.7 cm. (Use π = 22/7) (Correct up to one decimal place)

Ans
- ✗ A. 1. 756.5 cm^3
- ✓ B. 2. 956.5 cm^3
- ✗ C. 3. 856.5 cm^3
- ✗ D. 4. 656.5 cm^3

Q.17 To obtain a mixture valued at ₹205.50 per kg, in what ratio should a grocer combine two types of pulses that cost ₹203 per kg and ₹215 per kg, respectively?

Ans
- ✗ A. 5 : 17
- ✗ B. 17 : 5
- ✓ C. 19 : 5
- ✗ D. 5 : 19

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Q.18 $0.12\overline{3} + 0.0\overline{12} + 3$

Ans

✗ A. $3\frac{135}{990}$

✗ B. $3\frac{134}{999}$

✗ C. $3\frac{135}{999}$

✓ D. $3\frac{134}{990}$

Q.19 Given that $137^{0.1} = x$, $137^{0.68} = y$ and $x^z = y^4$, then the value of z is close to:

Ans

✗ A. 25.05

✗ B. 29.14

✗ C. 27.13

✓ D. 27.2

Q.20 A vendor claims to sell wheat at a loss of 35%. But he cheats by using weights that weigh 60% less than what is mentioned on them. What is his profit percentage (rounded off to 2 decimal places)?

Ans

✗ A. 64.56

✗ B. 57.39

✗ C. 58.64

✓ D. 62.50

Q.21 Bhavna and Bhumi invest in a business in the ratio 2 : 10. If total profit is Rs. 1140, then what is difference between the profit (in Rs.) of Bhavna and Bhumi?

Ans

✗ A. 910

✗ B. 810

✗ C. 860

✓ D. 760

Q.22 The average of 7 numbers is 51. If each number is increased by 7, what will the new average be?

Ans

✗ A. 65

✗ B. 7

✗ C. 51

✓ D. 58

Q.23 $0.\overline{27} + 0.\overline{39} + 3$

Ans

✗ A. $3\frac{7}{3}$

✗ B. $3\frac{1}{3}$

✗ C. $3\frac{5}{3}$

✓ D. $3\frac{2}{3}$

Q.24 A man sold an article for ₹504 by first giving a d% discount on its marked price, and then another discount having the same nominal value (in ₹). If the marked price of the article is ₹3600, then what is the value of d?

Ans

✗ A. 41

✓ B. 43

✗ C. 39

✗ D. 38

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Q.25 A number when divided by a divisor leaves a remainder of 42. When thrice the original number is divided by the same divisor, the remainder is 74. What is the value of the divisor?

Ans

✗ A. 55

✗ B. 54

✗ C. 53

✓ D. 52

Q.26 If x varies inversely as $y^3 - 1$ and is equal to 4 when y = 3, find x when y = 9.

Ans

✗ A. $\frac{1}{8}$

✗ B. $\frac{2}{8}$

✗ C. $\frac{3}{7}$

✓ D. $\frac{1}{7}$

Q.27 In an election between two candidates, 80% of the voters cast their vote out of which 53 votes were declared invalid. The winner got 48% of all the voters in the list and he won by 1013 votes. The number of voters on the list was:

Ans

✗ A. 5600

✓ B. 6000

✗ C. 6500

✗ D. 5000

Q.28 A 150 m long train crosses a man walking at a speed of 4 km/h in the opposite direction in 25 seconds. What is the speed (in km/h) of the train?

Ans

✗ A. 15.6

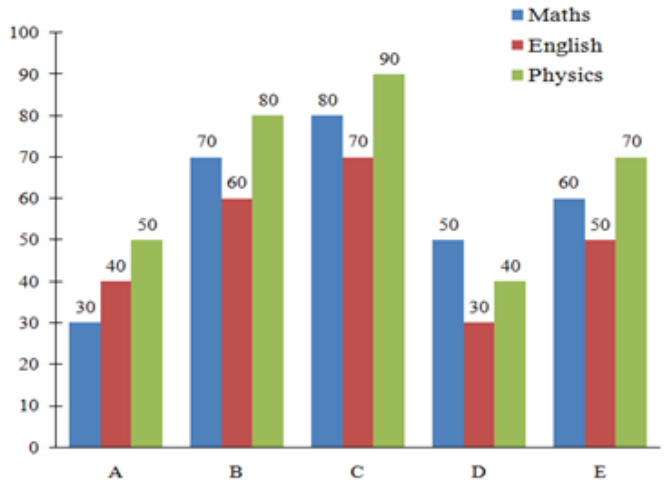
✗ B. 17.2

✗ C. 22.8

✓ D. 17.6

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Q.29 **Study the following graph carefully and answer the question given below. Marks scored by five students in subjects (Maths, English and Physics).**



What is the difference between the total marks obtained by C and the total marks obtained by E?

Ans

✔ A. 60

✘ B. 20

✘ C. 80

✘ D. 40

Q.30 **If the interest earned during the 2nd year on a certain sum is ₹8096, and the rate of interest is 10% per annum compounded annually, then the sum is:**

Ans

✔ A. ₹73600

✘ B. ₹74495

✘ C. ₹74550

✘ D. ₹74570

Q.31 **Find the value of** $\left[(27 \times 11) \times \left\{8 \div 8 \times \frac{(19-15)}{4}\right\}\right]$

Ans

✘ A. 289

✔ B. 297

✘ C. 282

✘ D. 309

Q.32 **A number when increased by 50 %', gives 3600. The number is:**

Ans

✔ A. 2400

✘ B. 7200

✘ C. 1200

✘ D. 4800

Q.33 **Utsavi invested a sum of ₹7500 at 18% per annum compound interest, componded annually. If she received an amount of ₹10443 after n years, the value of n is:**

Ans

✘ A. 2.79999995231628

✘ B. 3

✘ C. 1.6

✔ D. 2

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Q.34 **A 976 m long train crosses a man walking at a speed of 3.7 km/h in the opposite direction in 16 seconds. What is the speed (in km/h) of the train?**

Ans

✗ A. 211.8

✗ B. 215.6

✓ C. 215.9

✗ D. 214.5

Q.35 **The smallest 1-digit number to be added to the 6-digit number 649389 so that it is completely divisible by 11 is:**

Ans

✓ A. 7

✗ B. 5

✗ C. 8

✗ D. 6

Section : **General Intelligence and Reasoning**

Q.36 **In a certain code language, 'ROAM' is coded as '6417' and 'WORM' is coded as '6274'. What is the code for 'W' in the given code language?**

Ans

✗ A. 4

✗ B. 6

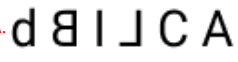
✓ C. 2

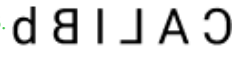
✗ D. 7

Q.37

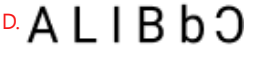


Ans

✗ A. 

✓ B. 

✗ C. 

✗ D. 

Q.38 **Aditya starts from Point A and drives 12 km towards South. He then takes a right turn, drives 9 km, turns right and drives 14 km. He then takes a right turn and drives 12 km. He takes a final right turn, drives 2 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degree turns only unless specified.)**

Ans

✗ A. 4 km to the east

✗ B. 4 km to the west

✓ C. 3 km to the west

✗ D. 3 km to the east

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Q.39 **Y, A, T, C and H each has different marks in Urdu. Only two people have scored more than T. H has scored immediately less marks than C. A has scored the highest marks. How many people have scored less than Y?**

Ans

✔ A. Three

✗ B. Four

✗ C. Two

✗ D. One

Q.40 **Refer to the following letter and symbol series and answer the question that follows. Counting to be done from left to right only.**

(Left) X R £ W % * Y # @ R U # G & # € £ * Q € U S (Right)

How many such symbols are there which are immediately preceded by a letter and also immediately followed by a symbol?

Ans

✔ A. Three

✗ B. Six

✗ C. Five

✗ D. Four

Q.41 **85 is related to 15 following a certain logic. Following the same logic, 70 is related to 12. To which of the following is 105 related, following the same logic?**
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting /multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

Ans

✔ A. 19

✗ B. 25

✗ C. 23

✗ D. 21

Q.42 **If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 2473681, what will be the sum of the digits that are second from the left and second from the right in the new number thus formed?**

Ans

✗ A. 6

✗ B. 9

✔ C. 8

✗ D. 7

Q.43 **Each of the digits in the number 3825476 is arranged in ascending order from left to right. The position(s) of how many digits will remain unchanged as compared to that in the original number?**

Ans

✗ A. Three

✗ B. None

✗ C. One

✔ D. Two

Q.44 **Karan ranked 34th from the top and 38th from the bottom in his class. How many students are there in his class?**

Ans

✗ A. 73

✗ B. 70

✗ C. 72

✔ D. 71

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Q.45 **Seven boxes, E, F, G, H, I, J and W, are kept one over the other but not necessarily in the same order. Only one box is kept above J. Only three boxes are kept between E and J. I is kept at one of the positions below E. Only W is kept between J and F. H is kept at one of the positions above J. How many boxes are kept between I and H?**

Ans

✗ A. Two

✗ B. Three

✗ C. One

✓ D. Five

Q.46 **Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of :: ?**

: NTR :: LRP : %

Ans

✗ A. # = IPU, % = NJH

✓ B. # = IOM, % = QWU

✗ C. # = PJM, % = KLU

✗ D. # = ILK, % = QMJ

Q.47 **In a certain code language, 'FILE' is coded as '3571' and 'LOAD' is coded as '4216'. What is the code for 'L' in the given code language?**

Ans

✗ A. 4

✗ B. 7

✗ C. 6

✓ D. 1

Q.48 **R is the father of J. Q is the daughter of P. R is the son of S. J is the daughter of K. P is the wife of S. How is P related to K?**

Ans

✗ A. Father's sister

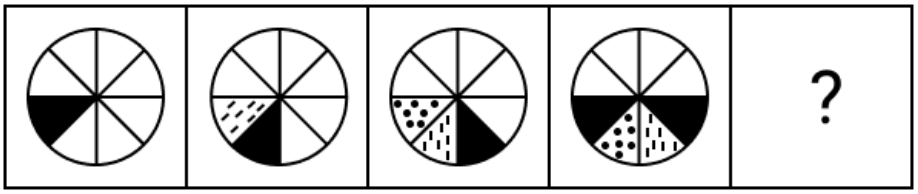
✓ B. Husband's mother

✗ C. Wife's father

✗ D. Brother's wife

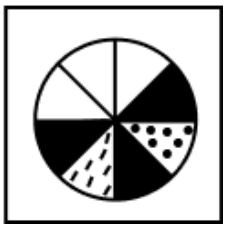
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Q.49

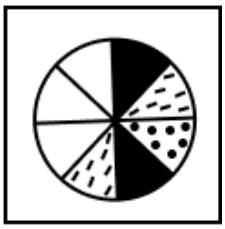


Ans

✗ A.



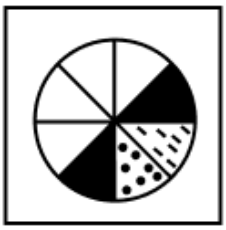
✗ B.



✓ C.



✗ D.



Q.50 **Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which letter-cluster pair DOES NOT belong to that group?**
(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans

✗ A. TO : RM

✓ B. RK : NI

✗ C. KF : ID

✗ D. NI : LG

Q.51 **Bishal starts from Point A and drives 18 km towards south. He then takes a left turn, drives 17 km, turns left and drives 19 km. He then takes a left turn and drives 18 km. He takes a final left turn, drives 1 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degrees turns only unless specified)**

Ans

✗ A. 2 km to the east

✗ B. 3 km to the east

✓ C. 1 km to the east

✗ D. 4 km to the east

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Q.52 In a certain code language, 'NOSE' is coded as '9876' and 'REAP' is coded as '4391'. What is the code for 'E' in that language?

Ans
- ✔ A. 9
- ✘ B. 4
- ✘ C. 3
- ✘ D. 6

Q.53 Seven people, A, B, C, D, E, F and G, are sitting in a row, facing north. Only C sits to the left of A. Only four people sit between C and F. Only E sits between B and G, and B is not an immediate neighbour of F. How many people sit between A and F?

Ans
- ✘ A. 1
- ✘ B. 2
- ✔ C. 3
- ✘ D. 4

Q.54 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

JHO LJQ NLS PNU ?

Ans
- ✘ A. RPX
- ✘ B. ROW
- ✔ C. RPW
- ✘ D. ROX

Q.55 What should come in place of the question mark (?) in the given series?

47 48 52 61 ? 102

Ans
- ✔ A. 77
- ✘ B. 99
- ✘ C. 66
- ✘ D. 88

Q.56 Each letter in the word DEBRIS is changed to the letter immediately succeeding it in the English alphabetical order and then all the letters thus formed are arranged in English alphabetical order. Which of the following letters will be fifth from the right in the new group of letters thus formed?

Ans
- ✘ A. C
- ✔ B. E
- ✘ C. F
- ✘ D. J

Q.57 Shekhar ranked 24th from the top and 21st from the bottom in his class. How many students are there in his class?

Ans
- ✘ A. 41
- ✘ B. 43
- ✘ C. 42
- ✔ D. 44

Q.58 Three of the following four letter-clusters are alike in a certain way and thus form a group. Which is the letter-cluster that does NOT belong to that group?
(Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)

Ans
- ✘ A. RPNJ
- ✘ B. FDBX
- ✘ C. AYWS
- ✔ D. USQN

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Q.59 **If 1 is added to each odd digit and 1 is subtracted from each even digit in the number 8375642, what will be the sum of the greatest and smallest digits in the new number thus formed?**

Ans

✔ A. 9

✘ B. 11

✘ C. 8

✘ D. 12

Q.60 **This question is based on the following words.**

OWN EAR BUS APT

How many letters are there between the second letter of the first word from the right, and the second letter of the first word from the left?

Ans

✘ A. 8

✔ B. 6

✘ C. 5

✘ D. 7

Q.61 **Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusion(s) logically follow(s) from the statements.**

Statements:
All hoodies are jackets.
All jackets are coats.
No jacket is a suit.

Conclusions:
(I) No coat is a suit.
(II) No hoodie is a suit.

Ans

✘ A. Both conclusions (I) and (II) follow.

✔ B. Only conclusion (II) follows.

✘ C. Neither conclusion (I) nor (II) follows.

✘ D. Only conclusion (I) follows.

Q.62 **PELB is related to LHHE in a certain way based on the English alphabetical order. In the same way, HKDH is related to DNZK. To which of the given options is ZQVN related to, following the same logic?**

Ans

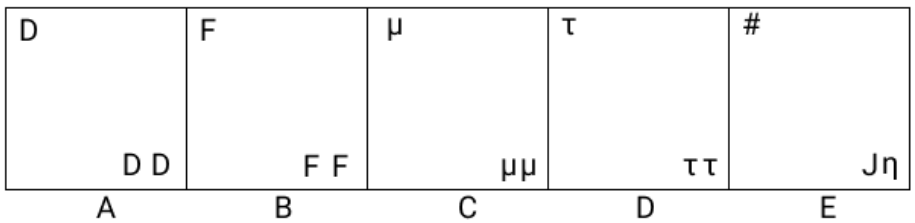
✘ A. WSRP

✘ B. WUST

✘ C. USQR

✔ D. VTRQ

Q.63 **Four of the following five figures are alike in a certain way and thus form a group. Which figure DOES NOT belong to that group?**



Ans

✘ A. B

✘ B. A

✘ C. C

✔ D. E

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Q.64 **HKOI is related to MPTN in a certain way based on the English alphabetical order. In the same way, FIMG is related to KNRL. To which of the following is DGKE related, following the same logic?**

Ans

✗ A. LIPJ

✗ B. ILJP

✓ C. ILPJ

✗ D. LIJP

Q.65 **What should come in place of the question mark (?) in the given series based on the English alphabetical order?**

FMJ HOL JQN LSP ?

Ans

✗ A. NTR

✓ B. NUR

✗ C. NUS

✗ D. NTS

Q.66 **A is the sister of B. B is the brother of C. C is married to D. E is the son of C. B has only one sister. How is D related to E?**

Ans

✓ A. Mother

✗ B. Brother

✗ C. Father

✗ D. Son

Q.67 **Three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which is the letter-cluster pair that does NOT belong to that group?**
(Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)

Ans

✓ A. JB - GL

✗ B. PH - MQ

✗ C. NF - KO

✗ D. LD - IM

Q.68 **I, J, K, L, P, Q and R are sitting around a square table facing the centre of the table. Only three people sit to the left of K. Only R sits to the right of Q. Only three people sit between Q and L. P sits at some place to the left of I but at some place to the right of J. How many people sit between J and I?**

Ans

✗ A. Four

✓ B. Three

✗ C. Two

✗ D. One

Q.69 **Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number result(s) in the second number. Similarly, certain mathematical operation(s) on the second number result(s) in the third number and so on. Which of the given options follows the same set of operations as in the given sets?**

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

36 - 34 - 31 - 27; 45 - 43 - 40 - 36

Ans

✓ A. 49 - 47 - 44 - 40

✗ B. 31 - 29 - 27 - 25

✗ C. 58 - 56 - 50 - 46

✗ D. 64 - 62 - 49 - 45

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Q.70 **Refer to the following letter and symbol series and answer the question that follows. Counting to be done from left to right only.**

(Left) & P @ I T £ O £ D @ R # D K # U # U & $ A L (Right)

How many such symbols are there each of which is immediately preceded by a letter and also immediately followed by a letter?

Ans

✗ A. 9

✗ B. 8

✗ C. 5

✓ D. 7

Section : **General Awareness**

Q.71 **Who wrote 'Masterpieces of Vijayanagara Art'?**

Ans

✗ A. RK Narayan

✓ B. Dr. Sindigi Rajasekhara

✗ C. Dr. V Ganapati Sthapati

✗ D. Pranab Chandra Roy

Q.72 **Which of the following river systems is characterised by fixed course, absence of meanders, and non-perennial flow?**

Ans

✗ A. Brahmaputra

✗ B. Himalayan

✓ C. Peninsular

✗ D. Ganga

Q.73 **Which of the following is a common plant species found in tropical evergreen forests?**

Ans

✗ A. Acacia

✓ B. Mahogany

✗ C. Teak

✗ D. Cactus

Q.74 **Which of the following statements is INCORRECT about aneuploids?**

Ans

✓ A. Organisms having more than two sets of chromosomes in each cell

✗ B. Unequal distribution of chromosomes to opposite poles

✗ C. Usually results from irregular meiotic division

✗ D. One or more chromosomes of a chromosome set either missing or having more copies

Q.75 **Which of the following statements is correct regarding the Money Bill in the Parliament?**

Ans

✗ A. Money Bill can be introduced in either of the Houses of the Parliament.

✗ B. Money Bill can be introduced in the Rajya Sabha only.

✓ C. Money Bill can be introduced in the Lok Sabha only.

✗ D. Money Bill cannot be introduced in the Lok Sabha.

Q.76 **Which of the following statements is NOT true regarding basic food groups?**

Ans

✗ A. Include at least one or a minimum number of servings from each food group in each meal.

✓ B. Cereals should supply more than 75% of the total Kcal/Calories.

✗ C. Include at least one serving of milk to ensure a supply of calcium.

✗ D. Include uncooked vegetables and fruits in the meals.

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Q.77 **Netaji Subhas Chandra Bose International Airport is situated in which of the following cities?**

Ans
- ✗ A. New Delhi
- ✓ B. Kolkata
- ✗ C. Mumbai
- ✗ D. Chennai

Q.78 **Which amendment of the Indian Constitution asserted a list of 'Fundamental Duties'?**

Ans
- ✗ A. 43
- ✗ B. 40
- ✗ C. 41
- ✓ D. 42

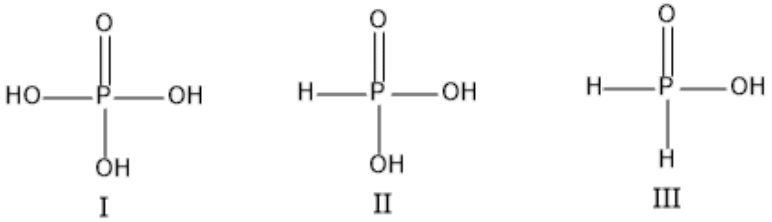
Q.79 **Which of the following Parts of the Indian Constitution deals with the provision regarding composition, appointment and removal of members along with the independence, power and function of the UPSC?**

Ans
- ✗ A. XIII
- ✗ B. XI
- ✓ C. XIV
- ✗ D. XII

Q.80 **As per the Census 2011, which of the following north-eastern states has the highest literacy rate?**

Ans
- ✗ A. Assam
- ✗ B. Meghalaya
- ✓ C. Tripura
- ✗ D. Nagaland

Q.81 **Arrange the following acids in increasing order of acidic strength.**



Ans
- ✗ A. III<II<I
- ✓ B. I<II<III
- ✗ C. III<I<II
- ✗ D. II<III<I

Q.82 **In which of the following years did Tata Tea acquire the UK-based Tetly?**

Ans
- ✗ A. 1998
- ✗ B. 1999
- ✓ C. 2000
- ✗ D. 2001

Q.83 **CSpace, India's first government-backed Over-The-Top (OTT) platform which addresses challenges in selecting and distributing content, was launched in which of the following states of India in March 2024?**

Ans
- ✗ A. West Bengal
- ✗ B. Maharashtra
- ✗ C. Bihar
- ✓ D. Kerala

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Q.84 **In which of the following years was the first session of the All India Kisan Sabha held?**

Ans

✗ A. 1925

✓ B. 1936

✗ C. 1947

✗ D. 1928

Q.85 **What is the primary role of the National Bank for Agriculture and Rural Development (NABARD) in the Indian economy?**

Ans

✗ A. Managing India's foreign exchange

✗ B. Providing microloans to urban enterprises

✓ C. Financing rural infrastructure and supporting agricultural development

✗ D. Direct lending to industrial projects

Q.86 **Which of the following natural heterogeneous polysaccharides present in the middle lamella strengthens the adjacent plant cells and provides cohesion to plant tissues?**

Ans

✗ A. Chitin

✗ B. Mucin

✓ C. Pectin

✗ D. Algin

Q.87 **Who among the following are involved in the election of the President of India?**

1. Elected members of the Lok Sabha
2. All members of the Rajya Sabha
3. Elected members of the State Assembly
4. Elected members of the State Legislative Council

Ans

✗ A. 1 and 2 only

✗ B. 1, 2, 3 and 4

✓ C. 1 and 3 only

✗ D. 1, 2 and 3 only

Q.88 **How many medals did the Team of Jammu and Kashmir win in the Khelo India Youth Games 2023?**

Ans

✗ A. 5

✓ B. 7

✗ C. 11

✗ D. 9

Q.89 **Which of the following organisations became a member of G20 in 2023 under India's presidency?**

Ans

✗ A. South Asian Association for Regional Co-operation

✗ B. The Quad group

✗ C. Association of South East Asian Nations

✓ D. African Union

Q.90 **Which plan sets targets to cover all major aspects of the economy?**

Ans

✗ A. Global plan

✓ B. Comprehensive plan

✗ C. Partial plan

✗ D. Imperative plan

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Q.91 **Which Indian bowler topped the chart of most wickets in the T20 World Cup 2024, along with Fazalhaq Farooqi of Afghanistan?**

Ans

✗ A. Jasprit Bumrah

✓ B. Arshdeep Singh

✗ C. Mohammed Siraj

✗ D. Axar Patel

Q.92 **Which Article discusses people born in the Indian province, people with either of their parents born in India and people who typically became Indian residents for five or more years instantaneously before the implementation of the Constitution?**

Ans

✓ A. Article 5

✗ B. Article 4

✗ C. Article 10

✗ D. Article 8

Q.93 **The annual precipitation in Meghalaya exceeds 400 cm, while in Ladakh and western Rajasthan, it is less than 10 cm. Based on the statement, which of the following is the pattern of annual precipitation in India?**

Ans

✗ A. More in the northern parts

✗ B. Uniform across the country

✗ C. More in the western parts

✓ D. Highly variable, with significant differences between regions

Q.94 **In the context of rural development, what is a critical challenge associated with traditional rural credit systems in India?**

Ans

✓ A. High reliance on informal sources leads to exploitative interest rates and debt traps for farmers

✗ B. They provide too much credit to rural households, leading to inflation

✗ C. Interest rates are uniformly low, discouraging savings

✗ D. Formal banking institutions entirely replace informal lenders, eliminating local financial practices

Q.95 **Who among the following started a Marathi fortnightly-Newspaper 'Mooknayak' in 1920?**

Ans

✗ A. MC Rajah

✓ B. Dr BR Ambedkar

✗ C. Swami Acchutanand

✗ D. Mahatma Gandhi

Q.96 **Who among the following was the first person to discuss the concept of the poverty line in pre-independent India?**

Ans

✓ A. Dadabhai Naoroji

✗ B. Annie Bessant

✗ C. Surendranath Banerjee

✗ D. Balgangadhar Tilak

Q.97 **Dr. YS Rawat was appointed as the Director General of which of the following organisations in December 2023?**

Ans

✗ A. Botanical Survey of India

✗ B. Geological Survey of India

✓ C. Archaeological Survey of India

✗ D. Zoological Survey of India

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Q.98 **In August 2024, the Indian Air Force (IAF) gave clearance to which organisations to produce 200 Astra air-to-air missiles?**

Ans

✗ A. DRDO and ISRO

✗ B. BDL and HAL

✗ C. DRDO and HAL

✓ D. DRDO and BDL

Q.99 **The Mass Drug Administration Campaign to eliminate Lymphatic Filariasis is being carried out by the Government in around 63 district in 6 states. Which of the following is NOT one of those states?**

Ans

✓ A. Chhattisgarh

✗ B. Karnataka

✗ C. Jharkhand

✗ D. Telangana

Q.100 **Who among the following exceptional musicians, unable to complete formal schooling, emerged as a musical genius and innovator, credited with inventing the Trimukhi, Panchamukhi, Saptamukhi, and Navamukhi ragas?**

Ans

✗ A. MS Subbulakshmi

✗ B. L Subramaniam

✗ C. TM Krishna

✓ D. M Balamuralikrishna

Q.101 **Under the reign of which of the following Mughal Emperors did Bahadur Shah attack Chittor?**

Ans

✓ A. Humayun

✗ B. Shah Jahan

✗ C. Babur

✗ D. Aurangzeb

Q.102 **According to which of the following Articles of the Indian Constitution, there shall be a Comptroller and Auditor-General of India who shall be appointed by the President by warrant under his hand and seal?**

Ans

✗ A. Article 157

✗ B. Article 145

✓ C. Article 148

✗ D. Article 153

Q.103 **When was a member of the British Cabinet appointed as a 'Secretary of State for India' and made responsible for all matters related to the governance of India?**

Ans

✓ A. 1858

✗ B. 1929

✗ C. 1911

✗ D. 1919

Q.104 **What is the full form of the NAMASTE Scheme, to be implemented for a period of 3 years from FY 2023-24 to FY 2025-26?**

Ans

✗ A. National Approach for Manual Sanitation and Treatment Enhancement

✗ B. National Aid for Mechanised Sanitation Technology Enhancement

✗ C. National Assistance for Manual Sanitation and Treatment Endeavors

✓ D. National Action for Mechanised Sanitation Ecosystem

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Q.105 **Who among the following was the Architect of the 'Basilica of Bom Jesus' in India?**

Ans

✔ A. Julião Simão and Domingos Fernandes

✘ B. George Wittet and Goerge Bush

✘ C. Erbert Baker and Smith

✘ D. William Emerson

Q.106 **As on 30th September 2024, how many member countries are in the World Bank?**

Ans

✘ A. 171

✔ B. 189

✘ C. 150

✘ D. 158

Q.107 **As per World Bank observation, rising rural wages and falling food prices brought about by agricultural intensification in the ____ and _____ helped to alleviate rural poverty in India.**

Ans

✘ A. 1960s; 1970s

✘ B. 1940s; 1950s

✘ C. 1950s; 1960s

✔ D. 1970s; 1980s

Q.108 **Which of the following states is known for the dance form Jhoori which is connected with Jhoomar and involves both men and women singing and dancing?**

Ans

✘ A. Rajasthan

✘ B. Punjab

✔ C. Himachal Pradesh

✘ D. Assam

Q.109 **_____ is the total value of goods and services produced in a country in addition to the income from abroad.**

Ans

✔ A. Gross Domestic Product

✘ B. Average Product Income

✘ C. Net National Value

✘ D. National Product/National Income

Q.110 **The resistances of the filament of two bulbs are R_1 and R_2. If both of these are connected in parallel, then the ratio of loss of power will be:**

Ans

✘ A. $\frac{R_1}{R_2}$

✘ B. $\frac{R_2}{(R_1 + R_2)}$

✔ C. $\frac{R_2}{R_1}$

✘ D. $\frac{R_1}{(R_1 + R_2)}$

Q.111 **Who among the following kings became the follower of the Jainism towards the later stages of his life?**

Ans

✘ A. Kunal

✔ B. Chandragupta Maurya

✘ C. Ashoka

✘ D. Bindusara

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Q.112 Which of the following Articles of the Indian Constitution states that no person who is arrested shall be detained in custody without being informed?

Ans

✔ A. Article 22

✘ B. Article 20

✘ C. Article 21

✘ D. Article 19

Q.113 According to Census 2011, which union territory has the lowest population?

Ans

✘ A. Dadra and Nagar Haveli

✘ B. Chandigarh

✘ C. Daman and Diu

✔ D. Lakshadweep

Q.114 Which of the following statements is true about India's Chandrayaan –3 mission?

Ans

✘ A. Propulsion Module placed the lander module in 100 km lunar orbit.

✘ B. RAMBHA and ChaSTE were amongst its rover payloads.

✔ C. It was launched using GSLV.

✘ D. LISA and LRA were amongst its lander payloads.

Q.115 What is the name of the first warship of the Anti-Submarine Warfare Shallow Craft (ASW SWC) project under construction by CSL, Kochi whose first Keel laying ceremony was undertaken on 30 Aug 22?

Ans

✘ A. Arnala

✔ B. Mahe

✘ C. Malwan

✘ D. Mangrol

Q.116 The third battle of Panipat was fought between the Maratha Empire and (the) ____.

Ans

✘ A. Sur Empire

✘ B. Timurids

✘ C. Uzbek

✔ D. Durrani Empire

Q.117 Consider the motion of a rigid body which is pivoted or fixed in some way. The possible motion for such a system is best described by:

Ans

✘ A. circular motion

✘ B. translation

✘ C. combination of rotation and translation

✔ D. rotation

Q.118 Arrange the following rulers of the Sharqi dynasty in the chronological order.

Ans

✘ A. Hussain Shah < Ibrahim Shah < Mubarak Shah < Mahmud Shah

✘ B. Mahmud Shah < Hussain Shah < Mubarak Shah < Ibrahim Shah

✘ C. Hussain Shah < Mubarak Shah < Ibrahim Shah < Mahmud Shah

✔ D. Mubarak Shah < Ibrahim Shah < Mahmud Shah < Hussain Shah

Q.119 When was the Disinvestment Commission established in India?

Ans

✔ A. 1996

✘ B. 1991

✘ C. 1998

✘ D. 1994

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Q.120 **In September 2024, V Satish Kumar took additional charge as Chairman of which of the following oil companies?**

Ans

✗ A. Bharat Petroleum Corporation Limited (BPCL)

✗ B. Gas Authority of India Limited (GAIL)

✓ C. Indian Oil Corporation Limited (IOCL)

✗ D. Oil and Natural Gas Corporation (ONGC)

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रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS

सी ई एन आर पी एफ - ०१/२०२४ - CEN RPF - 01/2024

Test Date	13/12/2024
Test Time	4:00 PM - 5:30 PM
Subject	RRB RPF SI 2024

*** Note**
Correct Answer will carry 1 mark per Question.
Incorrect Answer will carry 1/3 Negative mark per Question.

1. Options shown in green color with a tick icon are correct.

Section : **Arithmetic**

Q.1 **Bhanu covers 200 km in a boat in 48 hours against the stream and he takes 30 hours with the stream then find the speed of the stream?**

Ans
- ✗ A. 3.95 km/h
- ✓ B. 1.25 km/h
- ✗ C. 3.12 km/h
- ✗ D. 4.16 km/h

Q.2 **Raghu completes his journey in 15 hours. He covers half the distance at 28 km/h and the rest at 32 km/h. What is the length of the journey (in Km)?**

Ans
- ✓ A. 448
- ✗ B. 451
- ✗ C. 443
- ✗ D. 452

Q.3 **LCM and HCF of two numbers are 150 and 5 respectively. If one of the numbers is 30, then find the other number.**

Ans
- ✗ A. 24
- ✗ B. 27
- ✗ C. 23
- ✓ D. 25

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Q.4 **The pie-chart shows the data of sales (in percentage) of a company in four quarters. Study the given pie-chart and answer the question that follows.**



If the total production in a year is 4200 units, then the difference in sales in the 2nd and 4th quarters is (in units):

Ans
- ✔ A. 210
- ✘ B. 180
- ✘ C. 200
- ✘ D. 190

Q.5 **What will be difference in population 3 years ago and 2 years ago of a town, whose current population is 190000 and which is increasing at a rate of 25% every year?**

Ans
- ✘ A. 23570
- ✘ B. 23770
- ✔ C. 24320
- ✘ D. 24670

Q.6 **The average price of three items of furniture is Rs 16005. If their prices are in the ratio 3:5:7, the price of the costliest item (in Rs) is**

Ans
- ✘ A. 3201
- ✘ B. 5335
- ✘ C. 7469
- ✔ D. 22407

Q.7 **A person drove at 55 kmph for 6.5 hours, then increased his speed by 15 kmph, and reached the destination in another hour. Find the average speed (in kmph) of the person during the entire journey.**

Ans
- ✘ A. 53
- ✘ B. 59
- ✘ C. 60
- ✔ D. 57

Q.8 **The average of 7 numbers is 57. If each number is increased by 5, what will the new average be?**

Ans
- ✘ A. 67
- ✘ B. 57
- ✘ C. 7
- ✔ D. 62

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Q.9 A sum, when invested at 20% simple interest per annum, amounts to ₹2160 after 3 years. What is the simple interest (in ₹) on the same sum at the same rate in 1 year?

Ans
- ✔ A. 270
- ✘ B. 1080
- ✘ C. 540
- ✘ D. 135

Q.10 The population of a village was 140000. It increased by 15% in the first year and increased by 20% in the second year. Its population after two years is _____.

Ans
- ✔ A. 193200
- ✘ B. 161000
- ✘ C. 189000
- ✘ D. 168000

Q.11 Find the value of $\left[(27 \div 9) \times \left\{\frac{80}{8} + \frac{16}{2} \times (5 - 3)\right\}\right]$

Ans
- ✘ A. 63
- ✘ B. 82
- ✘ C. 81
- ✔ D. 78

Q.12 A person drove at 71 kmph for 6.5 hours, then increased his speed by 15 kmph, and reached the destination in another hour. Find the average speed (in kmph) of the person during the entire journey.

Ans
- ✘ A. 69
- ✘ B. 75
- ✔ C. 73
- ✘ D. 70

Q.13 Manav's average earning per month in the first three months of a year was ₹24328. In April, his earning was 50% more than the average earning in the first three months. If his average earning per month for the whole year is ₹76867, then what will be Manav's average earning (in ₹) per month from May to December?

Ans
- ✘ A. 101621
- ✘ B. 101619
- ✘ C. 101614
- ✔ D. 101616

Q.14 In a box, the average weight of dozen apples is 750 g. If 5 apples each of weight of 600 g are added, what would be the new average weight? (Up to one decimal place)

Ans
- ✘ A. 750.35 g
- ✘ B. 750.8 g
- ✘ C. 705.325 g
- ✔ D. 705.8 g

Q.15 During sale, Raghav bought a notebook marked for ₹100 at 49% discount and a pen marked for ₹105 at 40% discount. How much (in ₹) did he save due to sale?

Ans
- ✘ A. 92
- ✘ B. 94
- ✘ C. 90
- ✔ D. 91

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Q.16 The area of a square plot is 32041 m^2. The length of each side of the plot (in m) is:

Ans

✗ A. 177

✓ B. 179

✗ C. 157

✗ D. 199

Q.17 Which number should replace both the question marks in the following equation?

$$\frac{?}{12} = \frac{363}{?}$$

Ans

✗ A. 69

✓ B. 66

✗ C. 75

✗ D. 56

Q.18 The smallest natural number which is divisible by 9, 6, 72 and 76 is:

Ans

✗ A. 1327

✓ B. 1368

✗ C. 1338

✗ D. 1359

Q.19 Sakshi invested a sum of ₹8400 at 5% per annum compound interest, componded annually. If she received an amount of ₹9261 after n years, the value of n is:

Ans

✗ A. 3

✗ B. 2.59999990463257

✗ C. 1

✓ D. 2

Q.20 The smallest 1-digit number to be added to the 6-digit number 623058 so that it is completely divisible by 11 is:

Ans

✓ A. 4

✗ B. 8

✗ C. 6

✗ D. 1

Q.21 $\frac{1}{5} + \frac{2}{5} + \frac{4}{10} + \frac{4}{5} - 1 =$

Ans

✗ A. $\frac{17}{10}$

✗ B. $\frac{12}{10}$

✗ C. $-\frac{2}{10}$

✓ D. $\frac{8}{10}$

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Q.22 Find the value of $\left[(72 \div 3) \times \left\{\frac{88}{4} + \frac{19}{1} \times (8 - 7)\right\}\right]$

Ans
- ✗ A. 998
- ✓ B. 984
- ✗ C. 987
- ✗ D. 991

Q.23 If the radius of the base of a right circular cylinder is decreased by 12% and its height is increased by 175%, then what is the percentage increase (closest integer) in its volume?

Ans
- ✓ A. 1.13
- ✗ B. 0.91
- ✗ C. 0.92
- ✗ D. 1.22

Q.24 Find the value of $\left[(60 \div 6) \times \left\{\frac{16}{2} + \frac{15}{3} \times (6 - 3)\right\}\right]$

Ans
- ✗ A. 224
- ✗ B. 221
- ✗ C. 242
- ✓ D. 230

Q.25 The smallest 1-digit number to be added to the 6-digit number 726490 so that it is completely divisible by 11 is:

Ans
- ✗ A. 3
- ✓ B. 5
- ✗ C. 4
- ✗ D. 8

Q.26 The ratio of numbers of girls and boys participating in sports of a school is 1 : 5. If the number of girls is 243, determine the number of boys participating in the sports.

Ans
- ✗ A. 1235
- ✗ B. 1190
- ✗ C. 1245
- ✓ D. 1215

Q.27 The capacity of a hemispherical bowl is 19,404 cm^3. What is its curve $\left(\text{Take } \pi = \frac{22}{7}\right)$

Ans
- ✗ A. 1386
- ✗ B. 7272
- ✓ C. 2772
- ✗ D. 4158

Q.28 The areas of three adjacent faces of a solid cuboid are 27 cm^2, 232 cm^2 and 174 cm^2. What is the volume (in cm^3) of the cuboid?

Ans
- ✗ A. 918
- ✓ B. 1044
- ✗ C. 1115
- ✗ D. 1059

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Q.29 A shopkeeper marks an article at ₹x and offers a discount of 20% on it. He sells it for ₹351 after charging VAT of 25% on the discounted price. What is the value of ₹ x?

Ans

✗ A. ₹500

✗ B. ₹300

✓ C. ₹351

✗ D. ₹600

Q.30 A shopkeeper lists the price of a fan at 20% above its cost price and offers a 10% discount on its list price. If he earns a profit of ₹135, then what is the list price (in ₹) of the fan?

Ans

✗ A. 2067

✓ B. 2025

✗ C. 2242

✗ D. 1929

Q.31 If x varies inversely as $y^3 - 1$ and is equal to 5 when y = 3, find x when y = 7.

Ans

✓ A. $\frac{65}{171}$

✗ B. $\frac{67}{171}$

✗ C. $\frac{66}{172}$

✗ D. $\frac{65}{172}$

Q.32 A dishonest vendor claims that he is selling goods at their cost price. But he is weighing 725 grams for 1000 grams. What is his profit percentage (rounded off to 2 decimal places)?

Ans

✗ A. 38.02

✗ B. 39.3

✓ C. 37.93

✗ D. 40.58

Q.33 850 gm of honey solution has 40% honey in it. How much honey should be added to make it 50% in the solution?

Ans

✗ A. 90 gm

✓ B. 170 gm

✗ C. 141 gm

✗ D. 212 gm

Q.34 Find the value of $\left[(15 \times 4) \times \left\{6 \div 6 \times \frac{(15 - 11)}{2}\right\}\right]$

Ans

✗ A. 136

✗ B. 101

✓ C. 120

✗ D. 126

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Q.35 The price (per litre) of petrol increases by 80%. By what percent should its consumption be reduced such that the expenditure on it increases by 35% only?

Ans

✔ A. 75%

✘ B. 74%

✘ C. 70%

✘ D. 72%

Section : **General Intelligence and Reasoning**

Q.36 G, H, I, J, K and L each have different heights. Only two people are taller than K. Only J is taller than G. Only I is shorter than L.
Who is the fourth tallest?

Ans

✔ A. H

✘ B. K

✘ C. L

✘ D. G

Q.37 Select the pair that follows the same pattern as that followed by the two set of pairs given below. Both pairs follow the same pattern.
RWK : TUL
VSM : XQN

Ans

✘ A. ONT : RKV

✘ B. TUH : QWK

✔ C. ZOO : BMP

✘ D. CZP : FBQ

Q.38 Each of the digits in the number 7316485 is arranged in ascending order from left to right. The position(s) of how many digits will remain unchanged as compared to that in the original number?

Ans

✘ A. Three

✘ B. None

✘ C. Two

✔ D. One

Q.39 Amar starts from point A and drives 14 km towards West. He then takes a right turn, drives 15 km, turns right and drives 19 km. He then takes a right turn and drives 18 km. He takes a final right turn, drives 5 km and stops at point P. How far (shortest distance) and towards which direction should he drive in order to reach point A again? (All turns are 90 degrees turns only unless specified.)

Ans

✘ A. 4 km to the North

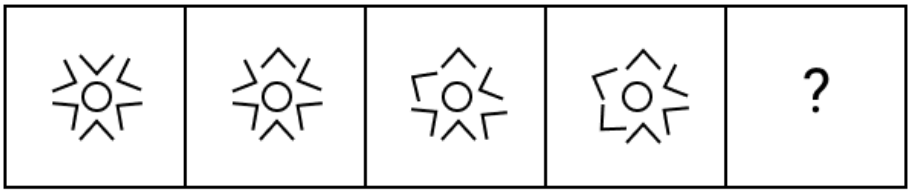
✘ B. 1 km to the North

✘ C. 2 km to the North

✔ D. 3 km to the North

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Q.40



Ans

✔ A.



✘ B.



✘ C.



✘ D.



Q.41 **Each of P, Q, R, S, T, U and V has an exam on a different day of a week starting from Monday and ending on Sunday of the same week.**
Only one person has exam between P and T. S has an exam on Tuesday. P has an exam on the day immediately before Q. V has an exam on the day immediately before U and immediately after R. T has an exam on Monday.
How many people have exams after R?

Ans

✘ A. None

✘ B. Three

✔ C. Two

✘ D. One

Q.42 **In a certain code language, 'MIND' is coded as '3879' and 'NEAR' is coded as '4351'.**
What is the code for 'N' in that language?

Ans

✘ A. 7

✔ B. 3

✘ C. 4

✘ D. 5

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Q.43 **In a certain code language,**

A + B means 'A is the wife of B',
A – B means 'A is the son of B',
A x B means 'A is the husband of B' and
A ÷ B means 'A is the sister of B'.
Based on the above, how is P related to T if 'P x Q ÷ R – S + T'?

Ans

✗ A. Sister's husband

✗ B. Mother's brother

✗ C. Father's brother

✓ D. Daughter's husband

Q.44 **Three of the following four letter-clusters are alike in a certain way and thus form a group. Which is the letter-cluster that does NOT belong to that group?**
(Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)

Ans

✓ A. TMKE

✗ B. GZXS

✗ C. VOMH

✗ D. DWUP

Q.45 **Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.**
Statements:
All lions are tigers.
All tigers are panthers.
All panthers are cats.
Conclusions:
(I): All lions are panthers.
(II): All tigers are cats.

Ans

✗ A. Only conclusion (I) follows.

✗ B. Only conclusion (II) follows.

✓ C. Both conclusions (I) and (II) follow.

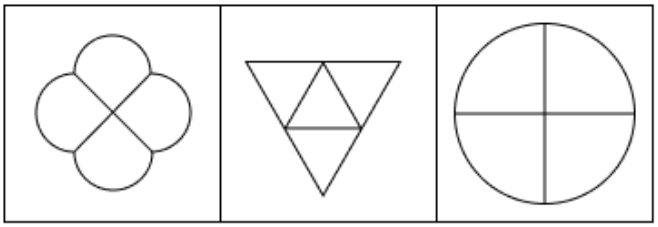
✗ D. Neither conclusion (I) nor (II) follows.

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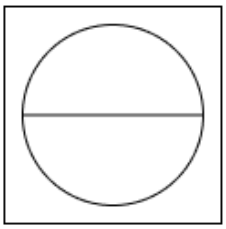
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Q.46

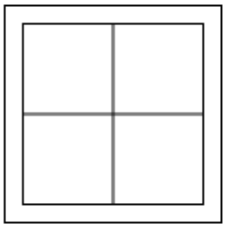


Ans

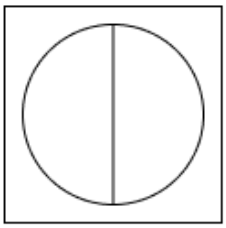
✗ A.



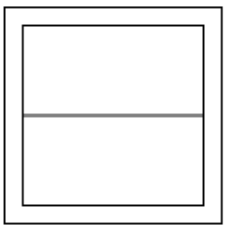
✓ B.



✗ C.



✗ D.



Q.47 **Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number results in the second number. Similarly, certain mathematical operation(s) on the second number results in the third number and so on. Which of the given options follows the same set of operations as in the given sets? (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting /multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)**
48 - 70 - 92 - 114
53 - 75 - 97 - 119

Ans

✗ A. 59 - 81 - 93 - 125

✗ B. 21 - 43 - 55 - 77

✓ C. 39 - 61 - 83 - 105

✗ D. 64 - 86 - 98 - 110

Q.48 **Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.**

CBE GFI KJM ONQ ?

Ans

✗ A. STV

✓ B. SRU

✗ C. TRV

✗ D. SRV

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Q.49 **Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of :: ?**

: EHM :: ORW : %

Ans

✗ A. # = POL, % = MLO

✓ B. # = GJO, % = MPU

✗ C. # = LKY, % = MMJ

✗ D. # = MKO, % = MMJ

Q.50 **Refer to the following letter and symbol series and answer the question that follows. Counting to be done from left to right only.**

(Left) * £ B K Ω G C D A @ U $ & T Y # E S % Q & R (Right)

How many such symbols are there each of which is immediately preceded by a letter and also immediately followed by a letter?

Ans

✓ A. 5

✗ B. 4

✗ C. 6

✗ D. 7

Q.51 **Refer to the following letter, number and symbol series and answer the question that follows. Counting to be done from left to right only.**
(Left) 7 F & C Q 7 % & # A 7 9 Q 8 * 1 5 Q V © M % (Right)
If all the letters are dropped from the series, which of the following will be sixth from the left?

Ans

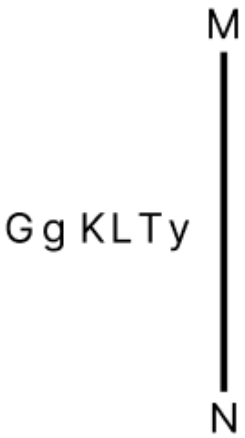
✗ A. 8

✗ B. 7

✓ C. #

✗ D. &

Q.52



Ans

✓ A. ɣ T ⅃ ʞ ƿ Ɠ

✗ B. L T y K ƿ Ɠ

✗ C. y T ⅃ ʞ G g

✗ D. ɣ T K L ƿ Ɠ

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Q.53 **Pranay starts from Point A and drives 8 km towards the East. He then takes a right turn, drives 6 km, turns right and drives 10 km. He then takes a right turn and drives 13 km. He takes a final right turn, drives 2 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degrees turns only unless specified)**

Ans

✗ A. 7 km to the North

✗ B. 6 km to the South

✗ C. 6 km to the North

✓ D. 7 km to the South

Q.54 **P, Q, R, S, T, U and W are sitting around a circular table facing the centre of the table. R sits to the immediate right of Q. Only three people sit between R and U, when counted from the left of R. Only three people sit between Q and T. W sits to the immediate right of S. How many people sit between R and S, when counted from the left of S?**

Ans

✓ A. Three

✗ B. One

✗ C. Four

✗ D. Two

Q.55 **Three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which is the letter-cluster pair that does NOT belong to that group?**
(Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)

Ans

✗ A. YW - SQ

✗ B. TR - NL

✗ C. PN - JH

✓ D. KJ - FE

Q.56 **Two sets of numbers are given below. In each set of numbers, certain mathematical operation(s) on the first number result(s) in the second number. Similarly, certain mathematical operation(s) on the second number result(s) in the third number and so on. Which of the given options follows the same set of operations as in the given sets? (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting /multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)**
48 - 96 - 86 - 98
14 - 28 - 18 - 30

Ans

✗ A. 17 - 119 - 102 - 106

✗ B. 17 - 68 - 55 - 56

✗ C. 42 - 126 - 116 - 117

✓ D. 24 - 48 - 38 - 50

Q.57 **96 people are standing in a row facing north. Yoon is 71st from the right end, while Fang is 36th from the left end. How many people are there between Yoon and Fang?**

Ans

✗ A. 7

✗ B. 6

✗ C. 8

✓ D. 9

Q.58 **Select the number from among the given options that can replace the question mark (?) in the following series.**

14 27 53 92 144 ?

Ans

✗ A. 205

✗ B. 208

✓ C. 209

✗ D. 204

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Q.59 Based on the English alphabetical order, three of the following four are alike in a certain way and thus form a group. Which is the one that DOES NOT belong to that group?

Ans
- ✔ A. VPZ
- ✘ B. PKU
- ✘ C. HCM
- ✘ D. MHR

Q.60 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

GEB IGD KIF MKH ?

Ans
- ✘ A. OMI
- ✘ B. ONJ
- ✘ C. ONI
- ✔ D. OMJ

Q.61 In a certain code language, 'BREAKING' is coded as '268' and 'AVIATION' is coded as '364'. What is the code for 'CAMPAIGN' in the given code language?

Ans
- ✘ A. 260
- ✘ B. 246
- ✔ C. 256
- ✘ D. 252

Q.62 If 1 is added to each even digit and 1 is subtracted from each odd digit in the number 2934867, how many digits will appear more than once in the new number thus formed?

Ans
- ✔ A. None
- ✘ B. Two
- ✘ C. One
- ✘ D. Three

Q.63 Each vowel in the word IAPETIC is changed to the letter immediately following it in the English alphabetical order and each consonant is changed to the letter immediately preceding it in the English alphabetical order. How many letters will appear exactly twice in the group of letters thus formed?

Ans
- ✘ A. 3
- ✘ B. 0
- ✘ C. 1
- ✔ D. 2

Q.64 In a certain code language, 'PINK' is coded as '2319' and 'PICK' is coded as '5129'. What is the code for 'C' in that language?

Ans
- ✘ A. 1
- ✘ B. 9
- ✔ C. 5
- ✘ D. 2

Q.65 If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 1457326, what will be difference between the highest and lowest digits in the new number thus formed?

Ans
- ✘ A. 7
- ✘ B. 9
- ✘ C. 6
- ✔ D. 8

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Q.66 This question is based on the five, three-digit numbers given below.
(Left) 569 458 547 438 591 (Right)
(Example- 697 – First digit = 6, second digit = 9 and third digit = 7)
NOTE - All operations to be done from left to right.
What will be the resultant if the third digit of the highest number is added to the second digit of the lowest number?

Ans
- ✗ A. 5
- ✗ B. 3
- ✓ C. 4
- ✗ D. 2

Q.67 P, Q, R, S, U, V and W are sitting around a circular table facing the centre of the table. Only two people sit between P and S when counted from the right of P. Only two people sit between S and R. Only three people sit between P and Q. U sits to the immediate left of W.
Who sits third to the left of V?

Ans
- ✗ A. P
- ✓ B. W
- ✗ C. Q
- ✗ D. U

Q.68 Raj ranked 29th from the top and 37th from the bottom in his class. How many students are there in his class?

Ans
- ✗ A. 66
- ✗ B. 67
- ✓ C. 65
- ✗ D. 64

Q.69 A is the mother of B. G is the sister of B's father C. K is the son of G. How is A related to K?

Ans
- ✓ A. Mother's brother's wife
- ✗ B. Mother's brother's son
- ✗ C. Mother's brother's daughter
- ✗ D. Mother's father

Q.70 NFLQ is related to RCPN in a certain way based on the English alphabetical order. In the same way, VZTK is related to ZWXH. To which of the given options is DTBE related to, following the same logic?

Ans
- ✗ A. IPDB
- ✓ B. HQFB
- ✗ C. GPEC
- ✗ D. IRGA

Section : **General Awareness**

Q.71 In a federal country, disputes regarding federal matters are resolved by which of the following?

Ans
- ✗ A. Union Government
- ✗ B. Lower courts
- ✗ C. High Courts
- ✓ D. Supreme Court

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Q.72 **Bolgatty Palace in Kochi, Kerala, India was built in the _____ architectural style.**

Ans

✗ A. British

✓ B. Dutch

✗ C. French

✗ D. Portuguese

Q.73 **Who among the following was appointed as the new Executive Director of the Reserve Bank of India with effect from 1 July 2024?**

Ans

✓ A. Charulatha S Kar

✗ B. SC Murmu

✗ C. Rajiv Ranjan

✗ D. Aviral Jain

Q.74 **Who among the following wrote the 'Ganesha's Sweet Tooth'?**

Ans

✗ A. Kiran Desai

✓ B. Sanjay Patel and Emily Haynes

✗ C. Amitav Ghosh

✗ D. Alka Joshi

Q.75 **Who among the following social reformers of Bengal earnestly fought for widow remarriages and girl education?**

Ans

✗ A. Debendranath Tagore

✓ B. Ishwarchandra Vidyasagar

✗ C. Nabinchandra Sen

✗ D. Bankim Chandra Chattopadhyay

Q.76 **The successor organisation to the General Agreement on Trade and Tariff (GATT) was established in _____.**

Ans

✗ A. 1991

✗ B. 1948

✗ C. 1981

✓ D. 1995

Q.77 **Air Fest 2022, an annual show showcasing manoeuvres of planes and helicopters in the arsenal of the Indian Air Force (IAF), was organised at which of the following places in 2022?**

Ans

✗ A. Jodhpur

✗ B. Patiala

✓ C. Nagpur

✗ D. Pune

Q.78 **Which of the following experiences a unique 'chillai-kalan' winter season?**

Ans

✓ A. Kashmir

✗ B. Kerala

✗ C. Assam

✗ D. Tamil Nadu

Q.79 **Which of the following states is known for Bihu music?**

Ans

✗ A. Tamil Nadu

✓ B. Assam

✗ C. Rajasthan

✗ D. Punjab

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Q.80 **Which of the following commercially important trees is found in the Tropical Evergreen Forests?**

Ans
- ✔ A. Ebony
- ✘ B. Pine
- ✘ C. Teak
- ✘ D. Oak

Q.81 **The 2nd top layers of a rainforest, formed by the thick leaves of tall trees is known as:**

Ans
- ✔ A. canopy layer
- ✘ B. emergent layer
- ✘ C. understory layer
- ✘ D. forest floor

Q.82 **Subject to the provisions of Article ___, there shall be a Public Service Commission for the Union and a Public Service Commission for each State.**

Ans
- ✔ A. 315
- ✘ B. 318
- ✘ C. 317
- ✘ D. 316

Q.83 **What provision of the Indian Constitution guarantees the independence of the judiciary?**

Ans
- ✘ A. Preamble
- ✘ B. Fundamental Rights
- ✔ C. Judicial Review
- ✘ D. Directive Principles of State Policy

Q.84 **Select the INCORRECT option with respect to joint military exercises of India with other nations.**

Ans
- ✘ A. USA - Tiger Triumph
- ✘ B. Uzbekistan - Dustlik
- ✔ C. UAE - Dharma Guardian
- ✘ D. UK - Ajeya Warrior

Q.85 **As on 30 September 2024, the Asian Development Bank (ADB) has how many members in total?**

Ans
- ✔ A. 69
- ✘ B. 31
- ✘ C. 19
- ✘ D. 49

Q.86 **In September 2023, Kerala received recognition from the Indian Council of Medical Research (ICMR) for conducting TrueNat tests to detect infected cases of which of the following viruses?**

Ans
- ✔ A. Nipah
- ✘ B. Tilapia
- ✘ C. Chandipura
- ✘ D. Zika

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Q.87 Which of the following is Disinvestment?

Ans

✔ A. Privatisation of the public sector undertakings by selling off the part of the equity of PSUs to the public is known as disinvestment.

✘ B. Liberalisation of the private sector undertakings by selling off the part of the equity of PSUs to the public is known as disinvestment.

✘ C. Liberalisation of the public sector undertakings by selling off the part of the equity of PSUs to the public is known as disinvestment.

✘ D. Globalisation of the public sector undertakings by selling off the part of the equity of PSUs to the public is known as disinvestment.

Q.88 The mother of Jahangir was a Kachhwaha princess, a daughter of Rajput ruler of _____.

Ans

✔ A. Amber

✘ B. Marwar

✘ C. Mewar

✘ D. Berar

Q.89 According to the Census of India 2011, what was the percentage increase in female literacy in India during 2001-2011?

Ans

✔ A. 22%

✘ B. 9%

✘ C. 14%

✘ D. 5%

Q.90 Select the correct statement about refractive index from among the following.

Ans

✘ A. The ratio of the speed of light in a specific medium to the speed of light in vacuum is called the refractive index.

✘ B. Refractive index is the sum of the angle of incidence and the angle of refraction.

✘ C. Refractive index and reflection are the same phenomenon.

✔ D. The ratio of the speed of light in vacuum to its speed in a specific medium is called the refractive index.

Q.91 CH Vijayashankar, who was appointed as Governor of Meghalaya in July 2024, was the former minister of the state of ____.

Ans

✘ A. Bihar

✘ B. Rajasthan

✘ C. Gujarat

✔ D. Karnataka

Q.92 Which of the following is NOT a Gharana of classical Hindustani music?

Ans

✘ A. Kirana Gharana

✘ B. Agra Gharana

✘ C. Gwalior Gharana

✔ D. Thanjavur Gharana

Q.93 In September 2024, a team of the National Institute of Mountaineering and Adventure Sports (NIMAS), under the Ministry of Defence, scaled an unnamed and uncharted peak in Arunachal Pradesh and named it after the 6th Dalai Lama, Tsangyang Gyatso. This expedition was led by whom among the following?

Ans

✘ A. Colonel Narendra Kumar

✘ B. Colonel Ashok Abbey

✘ C. Major SS Shekhawat

✔ D. Colonel Ranveer Singh Jamwal

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Q.94 Under which part of the Indian Constitution are the Fundamental Duties placed?

Ans

✗ A. Part I

✓ B. Part IVA

✗ C. Part III

✗ D. Part IV

Q.95 What is the name of India's first private launchpad and mission control centre located at Satish Dhawan Space Launch Centre from where 'Agnibaan – SorTeD' was launched in May 2024?

Ans

✗ A. Dhanush

✗ B. Agnisthal

✗ C. Dhara

✓ D. Agnikul

Q.96 Which of the following types of farming is largely confined to the regions having annual rainfall less than 75 cm in India?

Ans

✗ A. Plantation Agriculture

✓ B. Dryland Farming

✗ C. Wetland Farming

✗ D. Moist Farming

Q.97 Which economic system has exclusive public ownership to the forces/means of production?

Ans

✗ A. Totalitarianism

✓ B. Socialism

✗ C. Capitalism

✗ D. Mixed economy

Q.98 Which Article of the Indian Constitution provides that 'It shall be the duty of the Union and the State Public Service Commissions to conduct examinations for appointments to the services of the Union and the services of the State, respectively'?

Ans

✗ A. Article 319

✗ B. Article 318

✗ C. Article 322

✓ D. Article 320

Q.99 How many sporting disciplines were conducted during the 37th National Games 2023?

Ans

✗ A. 23

✗ B. 30

✓ C. 43

✗ D. 55

Q.100 Angkor Vat temple, which is dedicated to the god Vishnu, was built in the 12th century by _____, the king of Kambuja (Cambodia).

Ans

✓ A. Surya Varman II

✗ B. Yasovarman I

✗ C. Jayavarman II

✗ D. Indravarman I

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Q.101 **In December 2023, scientists from the International Advanced Research Centre for Powder Metallurgy & New Materials (ARCI), Hyderabad, developed an ecofriendly solar cell material by replacing lead in perovskite with which of the following metals?**

Ans

✗ A. Gallium

✗ B. Lithium

✓ C. Magnesium

✗ D. Cerium

Q.102 **The Government of India launched the Smart Cities Mission on:**

Ans

✗ A. 26-06-2014

✗ B. 25-06-2016

✗ C. 26-06-2017

✓ D. 25-06-2015

Q.103 **With which of the following is the Pradhan Mantri Jeevan Jyoti Bima Yojana related?**

Ans

✗ A. An insurance scheme offering education for girls.

✓ B. An insurance scheme offering life insurance cover for death due to any reason.

✗ C. An insurance scheme offering vehicle insurance cover for accidents due to any reason.

✗ D. An insurance scheme offering home insurance cover for accidents due to any reason.

Q.104 **Which of the following is the oldest landmass of India?**

Ans

✗ A. The Indus - Ganga plains

✓ B. The Peninsula Plateau

✗ C. Indian Island

✗ D. The Indian Desert

Q.105 **Which of the following is NOT the function of Money?**

Ans

✓ A. Eradicate Poverty

✗ B. Unit of account

✗ C. Medium of exchange

✗ D. Store of Value

Q.106 **What is the correct definition of 'head count ratio'?**

Ans

✗ A. The number of the people below the poverty line

✗ B. The proportion of the poorest people in the country

✓ C. The proportion of population below the poverty line

✗ D. The proportion of the marginal poor in the economy

Q.107 **An Indian woman Social reformer, _____ is credited with the establishment of 'Bharat Stree Mandal' in 1910.**

Ans

✗ A. Sarojini Naidu

✓ B. Sarlabala Devi Chaudhrani

✗ C. Usha Mehta

✗ D. Savitri Bai Phule

Q.108 **The SI unit of electric charge is:**

Ans

✓ A. coulomb

✗ B. ampere

✗ C. hertz

✗ D. ohm

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Q.109 Name the blood disorder which reduces the production of hemoglobin.

Ans

✗ A. Myeloma

✓ B. Thalassemia

✗ C. Hemochromatosis

✗ D. Polycythemia Vera

Q.110 The approximate number of protein coding genes present on 23 pairs of chromosomes (human) is _____.

Ans

✗ A. 40,000 to 45,000

✗ B. 30,000 to 35,000

✗ C. 10,000 to 15,000

✓ D. 20,000 to 25,000

Q.111 NASA astronaut Sunita Williams arrived at the International Space Station in June 2024 with which other astronaut from NASA?

Ans

✗ A. Bob Hines

✓ B. Barry Wilmore

✗ C. Frank Rubio

✗ D. Christopher Williams

Q.112 Who among the following was the successor of Sultan Iltutmish in Delhi Sultanate?

Ans

✓ A. Raziya

✗ B. Alauddin Khilji

✗ C. Alptekin

✗ D. Feroz Tughlaq

Q.113 Which of the following articles of the Indian Constitution facilitates people to move freely throughout the territory of India?

Ans

✗ A. Article 19(1)(a)

✗ B. Article (19)(1)(c)

✓ C. Article (19)(1)(d)

✗ D. Article 19(1)(b)

Q.114 How does the Reserve Bank of India (RBI) utilise the repo rate to control inflation?

Ans

✓ A. By increasing the repo rate to make borrowing more expensive for banks

✗ B. By offering subsidies on loans for small and medium enterprises

✗ C. By increasing the supply of money in the economy

✗ D. By decreasing the repo rate to encourage consumer spending

Q.115 Which of the following states has the highest literacy rate among females in India according to Census 2011?

Ans

✓ A. Kerala

✗ B. Mizoram

✗ C. Goa

✗ D. Himachal Pradesh

Q.116 Which of the following cases established the Right to Privacy as a fundamental right in the Constitution of India?

Ans

✗ A. Golaknath vs State Of Punjab

✓ B. Justice KS Puttaswamy (Retd) vs the Union of India

✗ C. SR Bommai vs Union of India

✗ D. Minerva Mills Ltd. vs Union Of India

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Q.117 Match the following Rulers with their Titles correctly.

Set-l	Set-ll
a. Tarikh-i-Sindh	1. Nizamuddin Bakshi
b. Tarikh-i-Kashmir	2. Arif kandhari
c. Tabaqat-i-Akbari	3. Mirza Masoom
d. Tarikh-i-Akbari	4. Mirza Haider

Ans
- ✗ A. a - 4; b - 3; c - 2; d - 1
- ✗ B. a -3; b - 4; c - 2; d - 1
- ✗ C. a - 2; b - 3; c - 4; d - 1
- ✓ D. a - 3; b - 4; c - 1; d - 2

Q.118 **The Khilafat Movement (Group) was launched to protest against which of the following?**

Ans
- ✗ A. Rowlatt Act
- ✗ B. Partition of Bengal
- ✗ C. Jallianwala Bagh massacre
- ✓ D. Dissolution of the Ottoman Empire

Q.119 **Which of the following can be considered an example of an olfactory indicator?**

Ans
- ✗ A. Turmeric
- ✓ B. Onion
- ✗ C. China rose
- ✗ D. Methyl orange

Q.120 **Which of the following hosted the 'Arogya Manthan' event in 2023?**

Ans
- ✓ A. Vigyan Bhawan, New Delhi
- ✗ B. Pragati Maidan, New Delhi
- ✗ C. Taj Hotel, Mumbai
- ✗ D. Bharat Mandapam, New Delhi

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