

RRB ALP 2025 CBT 1

Assistant Loco Pilot · CEN 01/2025 · Question Paper Compilation

English

All 10 Shifts (Sets) · Official Answer Key

About this Compilation

This booklet compiles all **10 shift papers** of the **RRB ALP 2025 CBT 1** examination (CEN 01/2025) in **English**, with the correct option marked as per the official answer key.

✓ Correct option (highlighted green)

How to use

- Use the **Index** page to jump directly to any set (clickable).
- Questions appear in shift order, numbered 1 onward within each set.
- Diagram and wide-table questions appear at full width at the end of their set.
- The correct answer is highlighted in green with a tick.

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Index — All Sets (click to open)

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Q1

What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$22 \div 11 \times 11 + 50 - 32 = ?$$

A. 6

B. 5

C. 2

D. 4



Q2

When the one-third of a number is increased by 25, the result is 87. Find the sum of the digits of the original number.

A. 15



B. 14

C. 18

D. 17

Q3

Good governance means:

A. Transparent, accountable, and citizen-friendly administration



B. Only strict laws

C. Government control over the media

D. Powerful political leaders

Q4

Each of G, J, M, O, R, S and T 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 two people have exams between G and S. Only four people have exams between M and G. J has an exam immediately after T. R does not have an exam on Monday.

How many people have exams between R and O?

A. One

B. Three

C. Two

D. Four



Q5

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 taps are bats.

All bats are mugs.

Conclusions:

(I) Some mugs are bats.

(II) All taps are mugs.

A. Both conclusions (I) and (II) follow.



B. Only conclusion (II) follows.

C. Neither conclusion (I) nor (II) follows.

D. Only conclusion (I) follows.

Q6

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

(Note: All numbers are single digit numbers only.)

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

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

A. One

B. None

C. Two

D. Three



Q7

A person drove at 53 kmph for 2.5 hours, then increased his speed by 28 kmph, and reached the destination in another hour. Find the average speed (in kmph) of the person during the entire journey.

A. 59

B. 60

C. 61



D. 58



Q8

Refer to the following letter, symbol series and answer the question. Counting to be done from left to right only.
 (Left) X # \$ L K M O > ? A S + T % @ A P & ? X Z R @ * + # I
 O ? & @ E R \$ Y U ? (Right)
 How many such symbols are there each of which is immediately preceded by a letter and also immediately followed by a letter?

A. 4

B. 1

C. 2



D. 3

Q9

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

(Left) 567 154 264 614 328 (Right)

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

What will be the resultant if third digit of the highest number is added to the second digit of lowest number?

A. 9



B. 6

C. 5

D. 8

Q10

A, G, H, P, S and Y 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 is numbered 6. Only three people live between Y and H, where Y lives below H. G lives on an odd-numbered floor and immediately above Y. S lives on one of the floors below A and on one of the floors above P. Who lives on floor numbered 5?

A. Y

B. A



C. P

D. G

Q11

If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 3615487, which of the following digits will be second from the left?

A. 8

B. 3

C. 2

D. 4

**Q12**

In a circle, the diameter PQ is extended through Q to an external point X. Tangent XY is drawn to point Y on the circle. If XY = 15 cm and QX = 9 cm, then find the radius of the circle.

A. 10 cm

B. 7 cm

C. 8 cm



D. 9 cm

Q13

Two sets of numbers are given below. In each set of numbers, a certain mathematical operation on the first number results in the second number. Similarly, certain mathematical operation 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 – A two/three digit number cannot be broken into individual digits for operations e.g. if 37 is followed by 10, the operation cannot be 3+7 as a two digit number cannot be broken into individual digits)

18 - 23 - 33 - 165

39 - 44 - 54 - 270

A. 28 - 39 - 48 - 144

B. 7 - 17 - 17 - 34

C. 50 - 55 - 65 - 325



D. 39 - 49 - 49 - 245

Q14

Sonal takes three times as much time as Parul and four times as much time as Sweety to complete the same task of decoration. Working together, they can complete the task in 6 days. How many days will Parul alone take to complete the task of decoration?

A. 48

B. 12

C. 16



D. 24

Q15

What should come in place of the question mark (?) in the given series?

214 201 190 181 174 ?

A. 167

B. 165

C. 171

D. 169



Q16

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

QGY OFW MEU KDS ?

A. ICR

B. IDR

C. IDQ

D. ICQ



Q17

If $x\%$ of 600 = 12% of 250 + 18% of 300, then the value of x is:

A. 16

B. 12

C. 18

D. 14



Q18

Ashutosh starts from Point A and drives 19 km towards West. He then takes a left turn, drives 9 km, turns left and drives 26 km. He then takes a left turn and drives 19 km. He takes a final left turn, drives 7 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.)

A. 11 km to the North

B. 10 km to the South



C. 11 km to the South

D. 10 km to the North

Q19

IM 126 is related to LN 116 in a certain way. In the same way, KO 149 is related to NP 139. To which of the given options is RV 263, following the same logic?

A. UW 253



B. SX 243

C. TW 233

D. TX 253

Q20

A flask in the shape of a right circular cone of height 19 cm is filled with water. The water is poured in the right circular cylindrical flask whose radius is one-third of the radius of the base of the circular cone. Then, what is the height of the water in the cylindrical flask?

A. 83 cm

B. 53 cm

C. 73 cm

D. 57 cm



Q21

The LCM of the numbers 1.3, 7.6 and 0.13 is:

A. 102

B. 107

C. 98.8



D. 100

Q22

Which of the following best describes a heterogeneous mixture?

A. Its components are visibly distinct.



B. It has a single composition.

C. It is a pure substance.

D. It cannot be separated physically.

Q23

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.)

A. MTP



B. QXS

C. OVQ

D. JQL



Q24

In this question, a question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and decide the appropriate answer.

Among the five poles—R, A, M, E, and N—each having a different height, which one is the shortest?

(I) N is shorter than A. E is shorter than R.

(II) E is taller than N.

A. Data in statement II alone is sufficient to answer the question while data in statement I is not

B. Both statements I and II together are NOT sufficient to answer the question

C. Data in statement I alone is sufficient to answer the question while data in statement II is not

D. Both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question

Q25

Read the given statement(s) 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 statement(s).

Statements:

All cows are buttons.

All fingers are buttons.

Conclusions:

(I) No cows are fingers.

(II) Some fingers are cows.

A. Both conclusions (I) and (II) follow.

B. Neither conclusion (I) nor (II) follows.

C. Only conclusion (I) follows.

D. Only conclusion (II) follows.

Q26

Among five people named V, W, X, Y and Z, each have a certain age. X is four times the age of Y. V's age is equal to the age of X. Y is one-third the age of Z. W is half the age of V. If the age of Z is 12, what is the age of W?

A. 15

B. 4

C. 6

D. 8

Q27

A shopkeeper fixes the marked price of an item 20% above its cost price. What percentage of discount should he offer to gain 2%?

A. 18%

B. 15%

C. 17%

D. 12%

Q28

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.)

A. EI - BF

B. JN - GK

C. NR - KO

D. PT - MR

Q29

A question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and decide the appropriate answer.

Q. Four relatives – Leena, Mona, Pooja, and Reema – are of different ages.

Who is the second oldest?

(I) Mona is older than Leena but younger than Reema.

(II) Pooja is younger than Reema but older than Mona.

A. Data in Statement II alone is sufficient to answer the question while data in Statement I is not

B. Data in both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question

C. Data in both statements I and II together are NOT sufficient to answer the question

D. Data in Statement I alone is sufficient to answer the question while data in Statement II is not

Q30

In a code language, 'HUGE' is coded as 82 and 'MERCY' is coded as 128. How will 'ASPECT' be coded in the same language?

A. 96

B. 88

C. 128

D. 116



Q31

Seven boxes, A, B, C, D, E, F and G, are kept one over the other but not necessarily in the same order. A is kept third from the top. Only one box is kept between A and D but D is not kept on the top. Only two boxes are kept between C and D. Only one box is kept between B and E and E is immediately above G. Which box is second from the top?

A. D

B. C ☒

C. E

D. G

Q32

5% of a number is what percentage of 4% of the same number?

A. 27.78%

B. 125% ☒

C. 55.55%

D. 80%

Q33

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

JNS – NRW – RVA

LPU – PTY – TXC

A. UYD – YCI – CGL

B. RVA – VZE – ZDH

C. MQV – QUZ – VZE

D. UYD – YCH – CGL ☒**Q34**

What sum (in ₹) will earn an interest of ₹480 in 2 years at 10% simple interest per year?

A. 2200

B. 2400 ☒

C. 2600

D. 2550

Q35

In a certain code language,
'M + N' means 'M is the brother of N',
'M - N' means 'M is the husband of N',
'M x N' means 'M is the sister of N' and
'M ÷ N' means 'M is the mother of N'.

Based on the above, how is A related to F if 'A - B ÷ C + D x E + F'?

A. Father's brother

B. Brother

C. Mother's brother

D. Father ☒**Q36**

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

(Left) \$ T % K L € & € G R Y @ A W # Y © R B * O Y (Right)

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

A. 5

B. 3

C. 4 ☒

D. 6

Q37

Aryan starts from point P and walks for 4 m towards the south. Then he takes a left turn and walks for 3 m. Then he takes one more left turn and walks for 8 m. Then he takes a right turn and walks for 2 m. Then he takes the last right turn and walks for 4 m before stopping at point Q. Towards which direction should he walk in order to reach point P again? (All turns are 90-degree turns only unless specified.)

A. North

B. West ☒

C. South

D. East

Q38

Which reaction is NOT a displacement reaction?

A. $\text{Zn} + \text{H}_2\text{SO}_4 \rightarrow \text{ZnSO}_4 + \text{H}_2$ B. $\text{HCl} + \text{NaOH} \rightarrow \text{NaCl} + \text{H}_2\text{O}$ ☒C. $\text{Na} + \text{H}_2\text{O} \rightarrow \text{NaOH} + \text{H}_2$ D. $\text{Fe} + \text{CuSO}_4 \rightarrow \text{FeSO}_4 + \text{Cu}$ 

Q39

Each vowel in the word PROVIDE 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. Which of the following letters will be third from the left in the new number thus formed?

A. C

B. Q

C. P



D. U

Q40

D, E, F, G, K, L and M are sitting around a circular table, facing the centre of the table.

D sits fourth to the right of K. Only two people sit between L and G when counted from the left of L. F sits third to the left of E. M is an immediate neighbour of E and G.

How many sit people between D and M when counted from the left of M?

A. Two

B. One

C. Three

D. Four



Q41

If an object is moved from beyond the center of curvature towards the focus in front of a concave mirror, the image _____.

A. becomes larger and moves away from the mirror



B. remains the same size and position

C. becomes smaller and moves closer to the mirror

D. becomes virtual and moves towards the mirror

Q42

Two trains A and B are running in opposite directions with speeds of 66 km/hr and 60 km/hr, respectively. If the length of the train A is 240 m and they cross each other in 10 seconds, then find the length of the train B.

A. 110 m



B. 120 m

C. 144 m

D. 150 m

Q43

What is the mode of the following data?

44, 45, 51, 50, 53, 54, 46, 40, 51, 46, 40, 42, 55, 42, 44, 55, 49, 44

A. 51

B. 55

C. 44



D. 40

Q44

If the interest earned during the 2nd year on a certain sum is ₹3072, and the rate of interest is 20% per annum compounded annually, then the sum is:

A. ₹12055

B. ₹12800



C. ₹12965

D. ₹13545

Q45

Two triangles share the same base of 14 cm. The area of one triangle is 98 cm². If the area of the other triangle is twice that of the first, find the height of the second triangle.

A. 7 cm

B. 21 cm

C. 28 cm



D. 14 cm

Q46

What should come in place of ? in the given series?

32 40 50 58 68 ?

A. 75

B. 78

C. 77

D. 76



Q47

18 is related to 321 following a certain logic. Following the same logic, 13 is related to 166. To which of the given options is 25 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 to/subtracting from/multiplying with 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

A. 422

B. 426

C. 622



D. 626

Q48

Which of the following is NOT lined by epithelial tissue?

A. Lung alveoli

B. Blood



C. Kidney tubules

D. Skin

Q49

KNVG is related to QIZD in a certain way based on the English alphabetical order. In the same way, HMSE is related to NHWB. To which of the following is GIUH related, following the same logic?

A. NEYD

B. MEXD

C. MDYE



D. NDXE

Q50

Which of the following is NOT a characteristic of muscular tissue?

A. Cardiac muscles are voluntary muscles.



B. Muscles in limbs are voluntary muscles.

C. Muscular tissues are composed of muscle fibres.

D. Voluntary muscles are also called skeletal muscles.

Q51

Refer to the following number, symbol series and answer the question. Counting to be done from left to right only. All numbers are single-digit numbers.
(Left) \$ ^ < 9 * @ \ # ? 2 6 @ 2 \ % ^ & / 2 8 % (Right)
How many such symbols are there each of which is immediately preceded by a number and also immediately followed by another symbol?

A. Two



B. Three

C. One

D. None

Q52

Each of A, C, I, M, O, Q and W has an exam on a different day of a week starting from Monday and ending on Sunday of the same week.

A has an exam on Saturday. Only 4 people have exams between M and O, neither of whom has an exam on Monday. I has an exam immediately after Q, and W has an exam immediately before Q. O has an exam after I. How many people have exams after I?

A. 2



B. 3

C. 4

D. 1

Q53

Which of the following Indian states became the third to achieve full functional literacy under the ULLAS - Nav Bharat Saaksharta Karyakram (New India Literacy Programme) in June 2025?

A. Tripura



B. Assam

C. Kerala

D. Gujarat

Q54

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.)

A. BFI

B. GKN

C. QTW



D. LPS



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Q55

In a certain code language, 'buy some food' is coded as 'lr tp nx' and 'food is tasty' is coded as 'nx ze jq'. How is 'food' coded in the given language?

A. nx



B. lr

C. jq

D. tp

Q56

During the propagation of sound in air, rarefaction is the region where:

A. particles are very close

B. density is minimum



C. pressure is high

D. wavelength becomes zero

Q57

What will come in place of the question mark (?) in the following equation, if '+' and '÷' are interchanged and '-' and 'x' are interchanged?

$$243 + 9 \times 4 - 19 \div 200 = ?$$

A. 151



B. 149

C. 156

D. 144

Q58

Below are given two sets of numbers. In each set of numbers, a certain mathematical operation on first number results in the second number. Similarly, certain mathematical operation on second number results in the third number and so on. Which of the given options follows the same set of operations as in question?

(NOTE – A two/three digit number cannot be broken into individual digits for operations e.g. if 37 is followed by 10, the operation cannot be $3+7$ as a two digit number cannot be broken into individual digits)

2 - 4 - 16 - 32 ; 3 - 6 - 36 - 72

A. 9 - 18 - 36 - 72

B. 6 - 12 - 144 - 248

C. 1 - 2 - 4 - 16

D. 5 - 10 - 100 - 200



Q59

Anand purchased an item and incurred ₹82 as repair expenses. Subsequently, he sold it to Bharath with 25% profit. Eventually, Bharath sold the item for ₹2915, making 47% loss. What was the cost (in ₹) of the item for Anand just before selling it to Bharath?

A. 4398

B. 4397

C. 4402

D. 4400



Q60

Refer to the following letter series and answer the question that follows. Counting to be done from left to right only.

(Left) L W X W X J S I X D V H T T Z B R P C W B (Right)

How many such consonants are there, each of which is immediately preceded by a consonant and also immediately followed by a vowel?

A. None

B. Two

C. More than three

D. One



Q61

D is the father of E. B is the son of F. D is married to F. K is the son of R, and R is the father of F. How is R related to D?

A. Father

B. Wife's brother

C. Wife's father



D. Brother

Q62

A tuning fork is struck harder. Which of the following increases as a result?

A. Neither frequency nor amplitude

B. Frequency only

C. Amplitude only



D. Frequency and amplitude



Q63

A, B, C, D, E, F and G are sitting around a circular table facing the centre. Only two people sit between C and B when counted from the right of C. Only two people sit between B and D. Only three people sit between C and F. G sits to the immediate left of E. How many people sit between A and B when counted from the left of A?

A. 2

B. 1

C. 3

D. 4

Q64

Which of the following is NOT an example of connective tissue?

A. Bone

B. Cartilage

C. Skin

D. Blood

Q65

Find the mean proportional of 49 and 16.

A. 32

B. 24

C. 36

D. 28

Q66

A sum of ₹3,540 is divided between Nisha, Sameer and Rupesh such that if their shares are decreased by ₹760, ₹190 and ₹280, respectively, then they are in the ratio of 10 : 2 : 9. What is the original share of Sameer?

A. ₹410

B. ₹468

C. ₹596

D. ₹137

Q67

During a sale, 50% of the goods are sold at a 49% profit, 32% of the remaining goods are sold at a 45% profit and the still remaining goods are sold at a loss of 15%. If there is an overall profit of x%, then what is the value of x?

A. 28.1%

B. 27%

C. 25%

D. 26.6%

Q68

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

GTN ZMG SFZ LYS ?

A. ERD

B. RDS

C. ERF

D. ERL

Q69

The following data shows the ages of the patients admitted in a hospital during a year. What is the modal age of the patients (correct to 2 decimal places)?

Age (in years)	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40
Number of Patients	4	10	8	2	12	6	3

A. 29.12 years

B. 33.51 years

C. 32.23 years

D. 28.13 years



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Q70

O₂

A. $2\sqrt{11}$ cm

B. $5\sqrt{11}$ cm

C. $3\sqrt{11}$ cm

D. $4\sqrt{11}$ cm



Q71

A and B can complete a job in 12 days and 18 days, respectively. If they work together for 6 days, how much of the job is left to be done?

A. $\frac{1}{6}$ of the job



B. $\frac{1}{2}$ of the job

C. $\frac{1}{9}$ of the job

D. $\frac{1}{7}$ of the job

Q72

A student's marks were incorrectly entered as 25 instead of 37. Due to this, the average marks of the class got decreased by $\frac{4}{3}$. What is the number of students in the class?

A. 3

B. 1

C. 19

D. 9



Q73

Find the simplified value of the following expression.

$$\frac{(36 \div 3) \times (48 \div 6) - (16 \div 2)}{4}$$

A. 23

B. 24

C. 22



D. 21



Q74

Shubh marks an article 40% above its cost price. He allows a single discount of $d\%$ on the marked price and still makes a profit of 10% on the cost price. Find the discount $d\%$.

A. $21\frac{2}{7}\%$

B. 23%

C. 22%

D. $21\frac{3}{7}\%$



Q75

$$\frac{\left(\frac{x+1}{y+1}\right)}{\left(\frac{x^2-1}{y^2-1}\right)}?$$

A. $\frac{11k-1}{3k-1}$

B. $\frac{11k-1}{3k+1}$

C. $\frac{11k-1}{9k-1}$



D. $\frac{7k-1}{3k-1}$



Q1

When a living plant cell loses water through osmosis, what happens to the cell contents?

- A. They dissolve
- B. They swell and burst
- C. They contract and move away from the cell wall ✓
- D. They remain unchanged

Q2

A shopkeeper sells an item for ₹225.6 after giving two successive discounts of 90% and 50% on its marked price. Had he not given any discount, he would have earned a profit of 41%. What is the cost price (in ₹) of the item?

- A. 3,182
- B. 3,194
- C. 3,204
- D. 3,200 ✓

Q3

What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$31 - 26 \times 1 \div 24 + 45 = ?$$

- A. 608
- B. 612
- C. 611
- D. 610 ✓

Q4

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

VQG : WNJ
DUN : ERQ

- A. KRG : LOI
- B. PNQ : QKS
- C. IRI : JOL ✓
- D. NPL : OLO

Q5

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)
(24,8,384)
(18,6,216)

- A. (13,10,130)
- B. (24,3,240)
- C. (15,9,240)
- D. (17,6,204) ✓

Q6

What is the mode of the following data?

89, 76, 76, 88, 81, 81, 65, 90, 83, 89, 64, 63, 78, 64, 82, 87, 79, 89, 87, 65, 86, 77, 80, 70, 67

- A. 64
- B. 89 ✓
- C. 76
- D. 81

Q7

Praveen and Sheenu are partners in a business. Praveen invests ₹35,000 for 9 months and Sheenu invests ₹42,000 for 10 months. Out of a profit of ₹31,570, find Sheenu's share.

- A. ₹18,020
- B. ₹18,640
- C. ₹18,240
- D. ₹18,040 ✓



Q8

If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 7531468, how many digits will appear more than once in the new number thus formed?

- A. None
- B. Two
- C. One
- D. Three

Q9

The sum of the present ages of Bunty and Bubbly is 24 years. After 2 years from now, Bunty's age will be three times that of Bubbly's age. Bunty's present age (in years) is:

- A. 17
- B. 19
- C. 22
- D. 28

Q10

The gravitational potential energy of an object depends on what?

- A. Its mass and height
- B. Its velocity and mass
- C. Its acceleration only
- D. Its speed only

Q11

Among five people named V, W, X, Y and Z, each have a certain age. X is thrice the age of Y. The age of V is 3. Y is half the age of Z. W is twice the age of V. If Z is four times the age of W, what is the age of X?

- A. 40
- B. 38
- C. 36
- D. 34

Q12

Refer to the given letter and symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) T O © L L \$ G £ L D V & & N * M @ J X © B K (Right)
How many such letters are there, each of which is immediately preceded by a letter and also immediately followed by a symbol?

- A. 4
- B. 5
- C. 3
- D. 6

Q13

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

GKB IMF KOJ MQN ?

- A. OSS
- B. PSR
- C. OSR
- D. PTR

Q14

A question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and decide the appropriate answer.

Q. Four people – **Mehul, Nitin, Prakash, and Sandeep** – are sitting in a straight line facing north.

Who is sitting at the extreme left end?

(I) Nitin is sitting immediately to the right of Mehul.

(II) Prakash is sitting immediately to the left of Sandeep.

- A. Data in Statement I alone is sufficient to answer the question while data in Statement II is not
- B. Data in Statement II alone is sufficient to answer the question while data in Statement I is not
- C. Data in both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question
- D. Data in both statements I and II together are NOT sufficient to answer the question



Q15

The price of a shirt is first increased by 10% and then increased by $x\%$. If the overall percentage increase is 19%, what is the value of x (rounded off to the nearest integer)?

A. 8



B. 9

C. 10

D. 11

Q16

Which of the following observations supports that matter is made of small particles?

A. Sand settles at the bottom when mixed with water.

B. Oil floats above the surface after gentle stirring.

C. Sugar dissolves in water without change in level.



D. Chalk powder remains visible even after mixing.

Q17

Rajesh and Naresh start a business by investing ₹66,000 and ₹29,000, respectively. Rajesh invests his money for 2 months and Naresh for 12 months. At the end of the year, 5% of the total profit is ₹7,036. What is Naresh's share of the profit (in ₹)?

A. 1,03,148

B. 1,02,022



C. 1,03,156

D. 1,02,145

Q18

In this question, a question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and decide the appropriate answer.

Among the five poles—I, N, C, H, and L—each having a different height, which pole is the shortest?

(I) L is taller than H.

(II) Only one pole is shorter than I. I is shorter than H but taller than N.

A. Data in statement I alone is sufficient to answer the question while data in statement II is not

B. Both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question

C. Data in statement II alone is sufficient to answer the question while data in statement I is not



D. Both statements I and II together are NOT sufficient to answer the question

Q19

Which of the following numbers is divisible by 11?

A. 232144



B. 231243

C. 432321

D. 322431

Q20

Aman earns ₹36,000 per month. He spends 30% on rent, 25% on food and 20% on education. He saves the rest. Find his total savings in one year.

A. ₹1,04,400

B. ₹1,11,000

C. ₹1,08,000



D. ₹1,15,800

Q21

If an object is placed between the centre of curvature (C) and the focus (F) of a concave mirror, what type of image will be formed?

A. Highly enlarged and virtual

B. Enlarged, real, and inverted



C. Same size, real, and upright

D. Diminished, real, and inverted

Q22

The marks obtained by 9 students of a class in mathematics are 76, 85, 47, 67, 85, 76, 47, 76, 67. What is the mode of these numbers?

A. 67

B. 47

C. 76



D. 85

Q23

A, T, Z, R, Y and L are sitting around a circular table facing the centre. T sits second to the left of L. Only two people sit between Z and L when counted from the left of Z. A sits to the immediate left of Z and to the immediate right of R. Who is sitting second to the left of R?

A. L

B. Z

C. T

D. Y



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Q24

The LCM of the numbers 0.9, 3.7 and 0.54 is:

- A. 100
- B. 105
- C. 106
- D. 99.9



Q25

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

LHC – PLG – TPK
SOJ – WSN – AWR

- A. RNI – XTP – AVQ
- B. UQL – YUP – CYU
- C. VRM – ZVQ – DZU
- D. UHK – XTP – FBX



Q26

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.)

- A. BDF
- B. PRT
- C. HJL
- D. QSV



Q27

In which location was Exercise Cyclone 2025 conducted with Egypt in February?

- A. Mahajan Field Firing Range, Rajasthan
- B. Jodhpur Desert Grounds, Rajasthan
- C. Babina Field, Uttar Pradesh
- D. Deesa Range, Gujarat



Q28

This question is based on the following words:

SUN RAT HIT BEG

In each of the words, each vowel 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. In how many letter-clusters thus formed, will no vowel appear?

- A. Two
- B. Three
- C. None
- D. One



Q29

Each vowel in the word PRODUCT 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. Which of the following letters will be third from the left?

- A. P
- B. B
- C. C
- D. Q



Q30

What should come in place of ? in the given series?

39 51 68 90 117 ?

- A. 150
- B. 149
- C. 151
- D. 148



Q31

Below are given two sets of numbers. In each set of numbers, a certain mathematical operation on the first number results in the second number. Similarly, certain mathematical operation 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 – A two/three digit number cannot be broken into individual digits for operations e.g. if 37 is followed by 10, the operation cannot be 3+7 as a two digit number cannot be broken into individual digits)

10 - 5 - 25 - 30 ; 4 - 2 - 4 - 9

A. 12 - 6 - 36 - 40

B. 8 - 4 - 16 - 21

C. 10 - 20 - 40 - 50

D. 7 - 49 - 54 - 60

Q32

How many members are elected to the Public Accounts Committee from Rajya Sabha?

A. 22

B. 15

C. 5

D. 7

Q33

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.)

A. RS-WX

B. YZ-DE

C. NO-ST

D. MN-QU

Q34

A faster train, 300 meters long, crosses a platform 600 meters in length in 40 seconds. A slower train, 450 meters long, takes 60 seconds to cross the same platform. Find the time it will take for the two trains to completely pass each other when traveling in opposite directions.

A. 17.85 seconds

B. 17.58 seconds

C. 18.75 seconds

D. 18.18 seconds

Q35

5 printers can print 9,000 pages in 6 hours. How many printers are needed to print 28,800 pages in 8 hours at the same rate?

A. 13

B. 10

C. 12

D. 11

Q36

T, W, A, L, O and B 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 is numbered 6. A lives on an even-numbered floor. T lives immediately below A. Exactly one person lives between T and L. Exactly one person lives between W and L. W lives immediately above O. O does not live on the lowermost floor. Who lives immediately above L?

A. O

B. T

C. W

D. A

Q37

What should come in place of the question mark (?) in the given series based on the English alphabetical order?
ACG IKO QSW YAE ?

A. GMJ

B. GMI

C. GIM

D. GYT

Q38

Refer to the following number, symbol series and answer the question that follows. Counting to be done from left to right only. All numbers are single-digit numbers.
(Left) ^ @ 4 > ? & % 2 ^ 5 * 7 3 6 ^ ? 8 6 & * 5 (Right)
How many such numbers are there, each of which is immediately preceded by a symbol and also immediately followed by another number?

A. One

B. Three

C. Four

D. Two



Q39

In a certain code language, 'HAST' is coded as '3586' and 'DAHS' is coded as '6357'. What is the code for 'D' in the given code language?

A. 3

B. 6

C. 5

D. 7

**Q40**

Each of Aditi, Aryan, Rahul, Kirti, Riya, Tanvi and Mia has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. Aryan has an exam on Wednesday. Aditi has exam on the day immediately after Riya. Only two people have exams between Aryan and Riya. Rahul has exam on the day immediately after Kirti. Aryan has exam on the day immediately before Tanvi. How many people have exams after Mia?

A. 2

B. 4

C. 1

D. 5

**Q41**

If two lines are parallel and a transversal makes an angle of 65° with one line, what is the measure of the corresponding angle on the other line?

A. 55° B. 115° C. 65° D. 25° **Q42**

What sum (in ₹) will earn an interest of ₹460 in 4 years at 10% simple interest per year?

A. 950

B. 1150

C. 1300

D. 1350

**Q43**

A, B, C, D, E, F and G are sitting around a circular table facing the centre.
Only three people sit between A and C when counted from the left of A. Only three people sit between B and G when counted from the right of G. F sits to the immediate right of B. D is an immediate neighbour of G as well as C.
How many people sit between C and F when counted from the left of F?

A. 2

B. 3

C. 4

D. 1

**Q44**

Wasim starts from Point A and drives 24 km towards the south. He then takes a right turn, drives 24 km, turns right and drives 31 km. He then takes a right turn and drives 33 km. He takes a final right turn, drives 7 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.)

A. 6 km to the east

B. 7 km to the east

C. 9 km to the west

D. 8 km to the west

**Q45**

In a certain code language,
'A + B' means 'A is the brother of B',
'A * B' means 'B is the father of A',
'A / B' means 'A is the sister of B' and
'A - B' means 'A is the mother of B'.
Based on the above, how is T related to Q if 'Q + L * Z + T + G'?

A. Sister

B. Sister's son

C. Brother's son

D. Mother

**Q46**

Which of the following effects of smoking was observed in terms of respiration?

A. Promotion of cilia in lower respiratory tract

B. Promotion of cilia in upper respiratory tract

C. Destruction of cilia in upper respiratory tract

D. Destruction of cilia in lower respiratory tract



Q47

Each of A, B, C, D, S, T and U 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 their exams before D. Only one person has the exam after U. Only three people have their exams between D and B. Only one person has the exam between C and S. A has the exam immediately before C. How many people have exams between T and C?

A. One

B. Two

C. Three

D. Four

Q48

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

(Left) F Y \$ F O € Z # J @ G * U N @ M \$ N @ £ @ & (Right)
How many such letter are there, each of which is immediately preceded by a symbol and also immediately followed by a symbol?

A. 7

B. 5

C. 6

D. 4

Q49

A, B and C together can complete a task in 20 days. A and B together can do it in 30 days, and B and C together can do it in 24 days. How long would B alone take to complete the entire work?

A. 48 days

B. 54 days

C. 45 days

D. 40 days

Q50

On a certain sum, if at the same rate of interest, for 2 years, the simple interest is ₹66 and compound interest is ₹67, then what is the sum (in ₹)?

A. 1093

B. 1089

C. 1084

D. 1082

Q51

If 'A' stands for '+', 'B' stands for 'x', 'C' stands for '+' and 'D' stands for '-', what will come in place of the question mark (?) in the following equation?

$$45 \text{ C } 9 \text{ B } 7 \text{ D } 195 \text{ A } 13 = ?$$

A. 93

B. 90

C. 95

D. 94

Q52

A boat running downstream covers a distance of 18 km in 3 hours while it covers the same distance upstream in 9 hours. The speed of the boat in still water is:

A. 4 km/hr

B. 8 km/hr

C. 2 km/hr

D. 6 km/hr

Q53

What should come in place of the question mark (?) in the given series?

145 132 120 109 99 90 ?

A. 84

B. 80

C. 78

D. 82

Q54

To neutralise excess acidity in the stomach, one can take:

A. Lemon juice

B. HCl solution

C. Antacids like $\text{Mg}(\text{OH})_2$

D. Vinegar

Q55

Arvind bought an article for ₹x. He sold it to Biru at a loss of 30%. Biru spent ₹198 on its transportation and sold it to Minu at a profit of 50%. If Minu bought it for ₹1,053, then what is the value of x?

A. 696

B. 671

C. 720

D. 715



Q56

Refer to the following series and answer the question that follows. Counting to be done from left to right. All numbers are single-digit numbers only.

(Left) 3 8 5 4 3 7 6 5 5 3 2 6 9 1 9 7 5 4 2 4 6 7 (Right)
How many such odd digits are there, each of which is immediately preceded by an even digit and also immediately followed by an odd digit?

- A. ONE
- B. TWO
- C. THREE
- D. NONE

Q57

Anand purchased an item and spent ₹84 on its repair. He then sold it to Bharath at a profit of 25%. Later, Bharath sold the item for ₹4368, incurring a loss of 9%. What was Anand's cost (in ₹) of the item just before selling it to Bharath?

- A. 3842
- B. 3838
- C. 3839
- D. 3840

Q58

Yatin starts from Point A and drives 21 km towards East. He then takes a left turn, drives 15 km, turns left and drives 29 km. He then takes a left turn and drives 26 km. He takes a final left turn, drives 8 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.)

- A. 10 km to the North
- B. 9 km to the South
- C. 11 km to the North
- D. 9 km to the North

Q59

A store marks up an item by 50% and then provides a discount of 20% on the marked price. If the final selling price is ₹2,400, what was the cost price (in ₹)?

- A. 2,100
- B. 2,050
- C. 1,800
- D. 2,000

Q60

In a certain code language,
'A + B' means 'A is the mother 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 M related to P if 'M + N ÷ O × P - Q'?

- A. Wife's father's mother
- B. Mother's husband
- C. Daughter
- D. Brother's wife

Q61

Sumeet built a conical tent having a floor diameter of 28 m and a perpendicular height of 48 m. What was the length of a 10 m wide canvas that Sumeet needed for the purpose? [Use $\pi = 22/7$]

- A. 220 m
- B. 200 m
- C. 179 m
- D. 196 m

Q62

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.)

- A. AB-EF
- B. GH-KL
- C. RS-VW
- D. TZ-AB

Q63

In a code language, 'DEAR' is coded as 16 and 'ANGEL' is coded as 25. How will 'BEHAVIOR' be coded in the same language?

- A. 36
- B. 64
- C. 49
- D. 18



Q64

A, Q, N, L, R and K 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 is numbered 6. L lives on an even-numbered floor but not on the topmost floor. Only three people live between K and N. R lives immediately below Q. K lives immediately above L. A lives on the topmost floor. Who lives on floor number 3?

A. A

B. K

C. Q



D. R

Q65

Select the set in which the numbers are related in the same way as are the numbers of 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 to/subtracting from/multiplying with 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(153, 228, 303)

(129, 204, 279)

A. (168, 247, 342)

B. (113, 188, 263)



C. (191, 266, 381)

D. (172, 237, 322)

Q66

HEVO is related to WTKD in a certain way based on the English alphabetical order. In the same way, PMDW is related to EBSL. To which of the given options is IFWP related, following the same logic?

A. XIOP

B. XULE



C. XLOE

D. XEDS

Q70

Two pipes, A and B, can fill a tank in 20 minutes and 30 minutes, respectively. If both pipes are opened together, the time taken to fill the tank is:

A. 14 minutes

B. 12 minutes



C. 15 minutes

D. 13 minutes

Q67

Each vowel in the word TRASHED 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. Which of the following letters will be third from the left in the new group of letters thus formed?

A. Q

B. G

C. R

D. B

**Q68**

A ball is dropped from a height and falls freely for 2 seconds. Its average speed during this time is: (Consider: acceleration due to gravity = 10 m/s^2)

A. 10 m/s



B. 20 m/s

C. 5 m/s

D. 15 m/s

Q69

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:

Some bugs are moths.

Some moths are parrots.

Conclusions:

(I) Some parrots are bugs.

(II) All moths are bugs.

A. Only conclusion (II) follows.

B. Both conclusions (I) and (II) follow.

C. Neither conclusion (I) nor (II) follows.



D. Only conclusion (I) follows.



Q71

Match the columns.

Epithelial Tissue		Location	
I	Cuboidal Epithelium	A.	Lining of intestine
II	Columnar Epithelium	B.	Skin
III	Squamous Epithelium	C.	Lining of kidney tubules

A. I-A; II-C; III-B

B. I-C; II-A; III-B

C. I-B; II-C; III-A

D. I-A; II-B; III-C

Q72

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

A. $\frac{22}{7}$

B. $\frac{11}{7}$

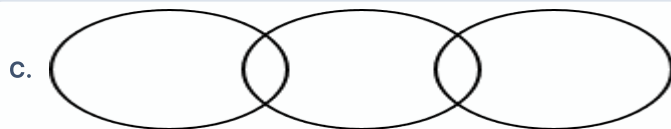
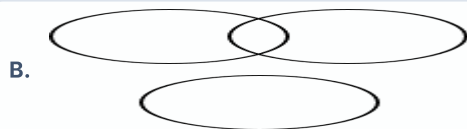
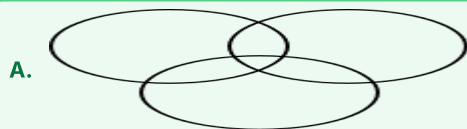
C. $\frac{44}{7}$

D. $\frac{33}{7}$

Q73

Select the Venn diagram that best illustrates the relationship between the following classes.

Lawyers, Teachers, Parents



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Q74

The volume of a cylinder having diameter 18 cm and height 35 cm is:

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

A. 8918 cm³

B. 8902 cm³

C. 8910 cm³



D. 8920 cm³

Q75

A student's marks were incorrectly entered as 84 instead of 94. Due to this, the average marks of the class got decreased by $\frac{5}{4}$. What is the number of students in the class?

A. 8



B. 15

C. 4

D. 17



Q1

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 angry are birds.

Some angry are pigs.

Conclusion (I): Some birds are pigs.

Conclusion (II): All pigs are birds.

A. Only conclusion (I) follows



B. Only conclusion (II) follows

C. Neither conclusion (I) and (II) follows

D. Both conclusion (I) and (II) follow

Q2

What is the mode of the following data?

86, 84, 71, 82, 82, 63, 84, 71, 70, 86, 88, 65, 71, 81, 87, 60, 60, 74, 78, 62, 75, 66, 68, 85, 72

A. 71



B. 86

C. 82

D. 84

Q3

A, B, C, D, E and F are sitting around a circular table, facing the centre. D sits to the immediate right of E. B sits to the immediate right of F. C sits second to the left of E. What is the position of A with respect to C?

A. Third to the left

B. Second to the left

C. Third to the right

D. Immediate right



Q4

Train A is 260 m long and crosses a platform of length 160 m in 28 seconds. Train B is 340 m long and passes a stationary man in 20 seconds. Both trains travel at constant speeds on parallel straight tracks. Find the time (in seconds) taken when the faster train completely overtakes the slower train while moving in the same direction?

A. 320

B. 360

C. 250

D. 300



Q5

If 'P' stands for '×', 'Q' stands for '÷', 'R' stands for '-' and 'S' stands for '+', then what will come in place of the question mark (?) in the following equation?

(12 P 3) Q 4 S 5 P 8 = ?

A. 49



B. 62

C. 41

D. 53

Q6

WURT is related to RPMZ in a certain way based on the English alphabetical order. In the same way, QNLG is related to LIGM. To which of the following is SPMH related, following the same logic?

A. NKHN



B. MKIN

C. NLIM

D. MLHM

Q7

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 Friday. Only 2 people have an exam between R and Q. S has an exam immediately before U and P has an exam immediately after V. Only 2 people have an exam between T and U. Who has an exam on Monday?

A. P

B. T



C. U

D. S



Q8

In this question, a question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and decide the appropriate answer.

Among the five poles—R, A, M, E, and N—each having a different height, which one is the shortest?

(I) E is taller than only one pole. R is taller than A.

(II) E is taller than N.

- A. Data in statement I alone is sufficient to answer the question while data in statement II is not
- B. Data in statement II alone is sufficient to answer the question while data in statement I is not
- C. Both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question
- D. Both statements I and II together are NOT sufficient to answer the question

Q9

A and D are married to each other. A is the mother of L. L is the husband of P. P is the mother of U. U is the sister of O. O is the only grandson of D. How is O related to L?

- A. Father
- B. Son
- C. Daughter
- D. Father's father

Q10

Refer to the following number, symbol series and answer the question. Counting to be done from left to right only. All numbers are single-digit numbers.

(Left) 4 3 1 2 \$ 9 & 2 ? 4 @ 1 9 * 3 7 3 @ & < % (Right)

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

- A. Two
- B. Three
- C. One
- D. None

Q11

A shopkeeper marks a mobile phone 40% above its cost price. He then offers two successive discounts of 10% and 5% on the marked price. Find the profit percentage he makes on the cost price.

- A. 19.7%
- B. 22.3%
- C. 21%
- D. 23%

Q12

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 to/subtracting from/multiplying with 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

6 – 36 – 72 – 144 ; 7 – 49 – 98 – 196

- A. 15 – 225 – 625 – 676
- B. 8 – 64 – 128 – 226
- C. 12 – 144 – 288 – 576
- D. 5 – 25 – 50 – 110

Q13

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

BAJ VUD POX JIR ?

- A. DCL
- B. DRF
- C. DFR
- D. DLC

Q14

Substances degraded easily by the biological processes are called as _____.

- A. Hard material
- B. Non-biodegradable
- C. Soft material
- D. Biodegradable



Q15

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

CAU JHB QOI XVP ?

A. ECW



B. EDS

C. ERT

D. EWC

Q16

The price of an article was ₹1600. It increased by 10% in the first year and by 30% in the second year. What is the price (in ₹) of the article after two years?

A. 2080

B. 2248

C. 2288



D. 1760

Q17

BE 11 is related to AI 33 in a certain way. In the same way, HK 16 is related to GO 48. To which of the given options is SV 18 related, following the same logic?

A. TZ 65

B. RZ 54



C. TY 55

D. RY 55

Q18

Which organisation hosted the National Agro-RE Summit 2025?

A. Indian Renewable Energy Development Agency

B. Ministry of Power

C. National Solar Energy Federation of India



D. NITI Aayog

Q19

On a certain sum, at the same rate of interest, the simple interest is ₹66 and compound interest is ₹69 for 2 years. What is the sum (in ₹)?

A. 356

B. 363



C. 367

D. 358

Q20

A 628 m long train crosses a man walking at a speed of 10.1 km/h in the opposite direction in 12 seconds. What is the speed (in km/h) of the train?

A. 180.2

B. 180.6

C. 178.3



D. 179.3

Q21

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.)

A. VS - WT

B. MJ - NK

C. TQ - JI



D. OL - PM

Q22

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.)

A. ST-UV

B. FG-HI

C. OP-IJ



D. WX-YZ

Q23

Vineet buys a juicer for ₹5,400. He wishes to gain a profit of 20% after offering a discount of 10% on the marked price to his customer. What should be the marked price (in ₹) for this purpose?

A. 7,200



B. 7,100

C. 7,150

D. 7,050



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Q24

A rectangular piece of paper is 44 cm long and 89 cm wide. A cylinder is formed by rolling the paper along its length. Find the curved surface area of the cylinder.

- A. 3961 cm²
- B. 3931 cm²
- C. 3902 cm²
- D. 3916 cm² ✓

Q25

What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$33 + 31 \times 31 \div 2 - 49 = ?$$

- A. 78
- B. 81
- C. 80 ✓
- D. 82

Q26

If the frequency of a sound wave increases and the speed remains constant, its wavelength will:

- A. increase
- B. remain the same
- C. decrease ✓
- D. become zero

Q27

Akshita starts from Point A and drives 22 km towards North. He then takes a left turn, drives 17 km, turns left and drives 27 km. He then takes a left turn and drives 21 km. He takes a final left 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-degree turns only, unless specified.)

- A. 4 km to the east
- B. 4 km to the west ✓
- C. 5 km to the east
- D. 5 km to the west

Q28

When a drop of ink is placed in water, it spreads evenly without stirring. What does this demonstrate?

- A. Particles are at rest
- B. Water reacts with ink
- C. Particles are heavy and settle down
- D. Particles of matter are constantly moving ✓

Q29

In a certain code language, 'SHAT' is coded as '4956' and 'ASHY' is coded as '3645'. What is the code for 'Y' in the given code language?

- A. 3 ✓
- B. 6
- C. 4
- D. 5

Q30

If the mean of 15 numbers is 25 and one number 36.2 is removed from the numbers, then the mean of the remaining numbers is:

- A. 20.1
- B. 21.9
- C. 20.8
- D. 24.2 ✓

Q31

In a code language, 'ONE' is coded as 9 and 'FOUR' is coded as 16. How will 'FIFTEEN' be coded in the same language?

- A. 49 ✓
- B. 18
- C. 36
- D. 24

Q32

The colour of scattered light depends on the size of the scattering particles. Very fine particles scatter mainly which colour of light?

- A. Green light
- B. Yellow light
- C. Blue light ✓
- D. Red light



Q33

49 is related to 99 following a certain logic. Following the same logic, 73 is related to 147. To which of the given options is 26 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.)

A. 62

B. 64

C. 59

D. 53

**Q34**

Refer to the following letter series and answer the question that follows. Counting to be done from left to right only. (Left) N G T X R K H V A W Z W U B R E C F K L Z (Right) How many such vowels are there, each of which is immediately preceded by a consonant and also immediately followed by a consonant?

A. None

B. One

C. Three



D. Two

Q35

A shopkeeper bought 50 mangoes at ₹10 each. He sold 30 mangoes at a profit of 20% and the remaining 20 mangoes at a loss of 10%. What is his overall profit or loss percentage?

A. 6% loss

B. 2% loss

C. 4% profit

D. 8% profit

**Q36**

Which type of cell has very small vacuoles?

A. Animal cell



B. Fungal cell

C. Plant cell

D. Bacterial cell

Q37

The price of a product increases by 38% in the first year and then decreases by 20% in the second year. If the initial price of the product is ₹5,100, calculate the final price at the end of the second year.

A. ₹5,720.80

B. ₹5,570.20

C. ₹5,490.60

D. ₹5,630.40

**Q38**

What should come in place of the question mark (?) in the given series?
79 88 100 115 133 154 ?

A. 178



B. 181

C. 170

D. 175

Q39

Which of the following option is INCORRECT about plasma membrane?

A. Plasma membrane is made up of lipid and protein

B. It is rigid in nature



C. It is outermost covering of the cell

D. It is selectively permeable

Q40

Among five people named V, W, X, Y and Z, each has a different age. Z is older than Y but younger than W. X is older than V but younger than Y. Who among them is the second oldest?

A. Z



B. X

C. W

D. V

Q41

If $2x + 3y = 11$ and $xy = 2$, find the value of $4x^2 + 9y^2$.

A. 97



B. 109

C. 117

D. 101



Q42

What sum (in ₹) will earn an interest of ₹480 in 2 years at 5% simple interest per year?

- A. 5000
- B. 4800
- C. 4600
- D. 4950



Q43

Each of G, J, M, O, R, S and T has an exam on a different day of a week, starting from Monday and ending on Sunday of the same week.

Only three people have exams between O and S. Only three people have exams between G and J. T has an exam on some day before R and on some day after M. Only J has an exam after S.

Who has an exam on Thursday?

- A. G
- B. O
- C. T
- D. M



Q44

D, E, F, G, K, L and M are sitting around a circular table, facing the centre of the table. F sits third to the left of K. Only one person sits between K and D when counted from the left of D. Only two people sit between L and E when counted from the right of E. G is an immediate neighbour of L.

Who sits third to the right of M?

- A. D
- B. L
- C. F
- D. G



Q45

When an object is placed at infinity in front of a convex lens, the image formed is:

- A. Real, inverted, and at the focus
- B. Virtual, erect, and at infinity
- C. Virtual, inverted, and at the focus
- D. Real, erect, and at $2F$



Q46

CPWG is related to HLZE in a certain way based on the English alphabetical order. In the same way, IMTE is related to NIWC. To which of the following is JOWF related, following the same logic?

- A. OKZD
- B. PKYE
- C. PLZE
- D. OLYD



Q47

If 'A' stands for '+', 'B' stands for 'x', 'C' stands for '+' and 'D' stands for '-', what will come in place of the question mark (?) in the following equation?

159 C 60 A 12 B 11 D 203 = ?

- A. 10
- B. 12
- C. 14
- D. 11



Q48

A question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and select the most appropriate answer.

Question:

Among 5 poles, I, L, O, M and D each having a different height, which pole is the tallest?

Statements:

- (I) M is taller than L. L is taller than D.
- (II) D is shorter than I but taller than O.

- A. Data in both statements I and II together are not sufficient to answer the question.



- B. Data in both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question.
- C. Data in statement I alone is sufficient to answer the question while data in statement II is not.
- D. Data in statement II alone is sufficient to answer the question while data in statement I is not.



Q49

A, G, H, P, S, and Y 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, until the topmost floor is numbered 6. H lives immediately above Y. Only two people live between P and Y. P lives on an odd-numbered floor. S lives immediately below G. Who lives on the topmost floor?

A. P

B. A

C. H

D. S

Q50

The Directive Principles of State Policy in the Indian Constitution _____.

A. Cannot be questioned in courts

B. Override Fundamental Rights in courts

C. Are enforceable by courts

D. Are not enforceable by any court

Q51

Kamal starts from point X and walks for 3 m towards west. Then he takes a left turn and walks for 8 m. Then he takes a left turn again and walks for 10 m. Then, again, he takes a left turn and walks for 2 m. Once more he takes a left turn and walks for 7 m and stops at a point Y. Towards which direction should he walk in order to reach point A again? (All turns are 90-degree turns only unless specified.)

A. South

B. North

C. West

D. East

Q52

A and B invested in a business in the ratio 4 : 5. They earned a profit of ₹54,000. They shared one-half of the profit equally and the other half in proportion to their investment. Find the profit share of B.

A. ₹27,550

B. ₹28,500

C. ₹26,650

D. ₹25,750

Q53

Refer to the following letter series and answer the question that follows.

(Left) M P L T V H B U I N G F D C R E W X L M P O T Y R C D S W Z X D F (Right)

How many letters are there in the letter series between the letter which is sixth from the right end and sixth from left end of the series?

A. 21

B. 22

C. 23

D. 20

Q54

A and B start a business by investing ₹40,000 and ₹60,000, respectively. At the end of the year, they earn a profit of ₹20,000. How much profit will A receive?

A. ₹9,000

B. ₹8,000

C. ₹7,500

D. ₹8,500

Q55

Refer to the following letter series and answer the question that follows. Counting to be done from left to right only.

(Left) X H O Z N M W I C G I U S O R Y I Y V I H W (Right)

How many such vowels are there, each of which is immediately preceded by a consonant and also immediately followed by a consonant?

A. 7

B. 6

C. 5

D. 8

Q56

A and B start a business by investing ₹29,000 and ₹95,000, respectively. B withdraws his investment after 6 months, and then C joins the business with an investment of ₹67,000 for the remaining period of the year. If 15% of the total profit is ₹6,600, what is B's share of the profit?

A. ₹19,500

B. ₹20,000

C. ₹19,000

D. ₹20,500



Q57

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.)

A. QR-ST

B. NO-PQ

C. LM-MQ



D. XY-ZA

Q58

What is the product when ethanol reacts with sodium?

A. Sodium hydroxide and oxygen gas evolve during the reaction with ethanol.

B. Sodium ethoxide and hydrogen gas evolve during the reaction with ethanol.



C. Sodium oxide and water evolve during the reaction with ethanol only.

D. Sodium carbonate and hydrogen gas evolve during the reaction with ethanol.

Q59

Two sets of numbers are given below. In each set of numbers, a certain mathematical operation on the first number results in the second number. Similarly, certain mathematical operation 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 – A two/three digit number cannot be broken into individual digits for operations e.g. if 37 is followed by 10, the operation cannot be $3+7$ as a two digit number cannot be broken into individual digits)

42 - 45 - 270 - 265

25 - 28 - 168 - 163

A. 12 - 23 - 46 - 37

B. 28 - 39 - 156 - 153

C. 33 - 34 - 204 - 193

D. 20 - 23 - 138 - 133



Q60

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'.

Based on the above, how is T related to M if 'T × R - Y + G ÷ M'?

A. Mother

B. Brother's daughter

C. Sister

D. Brother's wife



Q61

What should come in place of ? in the given series?

23 26 31 38 47 ?

A. 57

B. 59

C. 58



D. 60

Q62

Refer to the following series and answer the question (All numbers are single digit numbers only. Counting to be done from left to right.)

(Left) 9 1 7 5 1 1 4 7 2 1 9 5 4 8 5 6 6 8 7 6 8 1 5 7 6 2 8

(Right)

How many such odd numbers are there each of which is immediately preceded by an even number and also immediately followed by an even number?

A. 3



B. 5

C. 2

D. 4

Q63

Seven boxes, A, B, C, D, E, F and G, are kept one over the other, but not necessarily in the same order. E is kept third from the bottom. G is kept immediately above E. Only two boxes are kept between G and A, but A is not kept in the lowermost position. B is kept immediately below A. Only two boxes are kept between C and F, and D is kept immediate below F. Which box is third from the top?

A. F

B. D

C. C



D. A



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Q64

During a sale, 55% of the goods are sold at a 41% profit, 20% of the remaining goods are sold at a 19% profit and the rest are sold at a 21% loss. If there is an overall profit of $x\%$, then what is the value of x ?

A. 12%

B. 16.7% ✓

C. 10.5%

D. 15%

Q65

Refer to the following letter series and answer the question that follows. Counting to be done from left to right only. (Left) O K A E K J E E K R Y U V J M W O F E O Y A (Right) How many such vowel are there, each of which is immediately preceded by a consonant and also immediately followed by a vowel?

A. 2

B. 4

C. 5

D. 3 ✓

Q66

Find the HCF of 24, 36 and 102.

A. 12

B. 6 ✓

C. 4

D. 8

Q67

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

(Left) J @ € * Y % V % C I D % D H \$ K © L E £ M C (Right)

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

A. 5

B. 6 ✓

C. 7

D. 8

Q68

A cistern has two inlets I_1 and I_2 which can fill it in 16 hours and 20 hours, respectively. An outlet can empty the full cistern in 12 hours. If all the three pipes are opened together in the empty cistern, how much time will they take to fill the cistern completely?

A. $34\frac{2}{7}$ days ✓

B. $33\frac{6}{7}$ days

C. $36\frac{5}{6}$ days

D. $34\frac{2}{6}$ days

Q69

The area of a square is 6561 cm^2 . Its perimeter is equal to the perimeter of a regular hexagon. What is the area (in cm^2) of the hexagon?

A. 4338

B. 4404

C. $4348\sqrt{3}$

D. $4374\sqrt{3}$ ✓



Q70

From the top of a tower, the angles of depression of two objects, on the ground on the same side of it are observed to be 60° and 30° , respectively, and the height of the tower is 450 m. The distance between the objects (in m) is:

A. $450\sqrt{3}$

B. $100\sqrt{3}$

C. $300\sqrt{3}$



D. $150\sqrt{3}$

Q71

Two taps, A and B, can fill a cistern in 6 hours and 7.5 hours, respectively. Both the taps are opened for 2 hours and then B is turned off. How much time will A take to fill the remaining cistern?

A. 2.4 hours



B. 2 hours

C. 3.2 hours

D. $\frac{5}{3}$

Q72

The value of $8^2 + \sqrt{10^2} - 1\sqrt{16} - 5 =$

A. 65



B. 73

C. 66

D. 62

Q73

A student's marks were incorrectly entered as 34 instead of 70. Due to this, the average marks of the class got decreased by $\frac{4}{3}$. What is the number of students in the class?

A. 23

B. 32

C. 27



D. 28

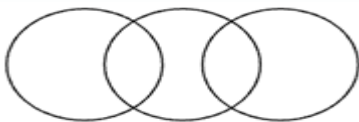


Q74

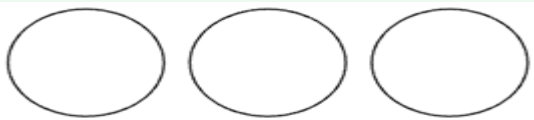
Select the venn diagram that best illustrates the relationship between the following classes.

Rabbits, Ants, Lions

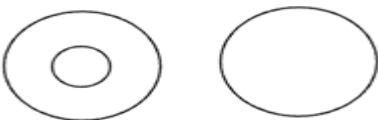
A.



B.



C.



D.

Q75

A circle has a radius of 8 cm. A chord AB is drawn such that the distance from the centre O to the chord is 6 cm. What is the length of AB?

A. $4\sqrt{7}$ cm



B. $8\sqrt{7}$ cm

C. $2\sqrt{7}$ cm

D. $4\sqrt{15}$ cm



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Q1

What should come in place of the question mark (?) in the given series?

17 28 39 50 61 72 ?

A. 81

B. 85

C. 87

D. 83



Q2

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.)

A. QHC

B. DUP

C. XPJ



D. JAV

Q3

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:

Some mugs are goats.

All goats are squares.

Conclusions:

(I) Some mugs are squares.

(II) Some squares are goats.

A. Neither conclusion (I) nor (II) follows.

B. Only conclusion (I) follows.

C. Only conclusion (II) follows.

D. Both conclusions (I) and (II) follow.



Q4

Each of G, J, M, O, R, S, and T has an exam on a different day of a week, starting from Monday and ending on Sunday of the same week.

Only three people have exams between O and S. S has an exam on the last day of the week. Only one person has an exam between G and J. T has an exam immediately the day before M. R doesn't have an exam on Friday. J has an exam before G.

Who has an exam on Tuesday?

A. G

B. T

C. O

D. J



Q5

The double-layered covering of the nucleus is called as

A. Plasma membrane

B. Cell wall

C. Chromatin wall

D. Nuclear membrane



Q6

What should come in place of ? in the given series?

98 110 123 137 152 ?

A. 168



B. 170

C. 169

D. 167



Q7

A question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and select the most appropriate answer.

Question:

Among 5 poles, I, L, O, M and D each having a different height, which pole is the tallest?

Statements:

- (I) O is shorter than D.
(II) M is taller than D.

- A. Data in both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question.
- B. Data in statement II alone is sufficient to answer the question while data in statement I is not.
- C. Data in statement I alone is sufficient to answer the question while data in statement II is not.
- D. Data in both statements I and II together are not sufficient to answer the question. ✓

Q8

Which of the following articles in the Indian Constitution states that there shall be a Council of Ministers with the Prime Minister at the head to aid and advise the President who shall, in the exercise of his functions, act in accordance with such advice?

- A. Article 84
- B. Article 74 ✓
- C. Article 50
- D. Article 70

Q9

Which of the following ratios is the largest?

- A. 18 : 31
- B. 21 : 36 ✓
- C. 25 : 43
- D. 17 : 30

Q10

QT 3 is related to SS -16 in a certain way. In the same way, HK 7 is related to JJ -12. To which of the given options is NO 11 related, following the same logic?

- A. OM -8
- B. PN -8 ✓
- C. PO -6
- D. OO -6

Q11

What should come in place of the question mark (?) in the given series based on the English alphabetical order?
ZWM URK PMI KHG ?

- A. FDF
- B. FCL
- C. KCE
- D. FCE ✓

Q12

Refer to the following letter series and answer the question that follows. Counting to be done from left to right only.

(Left) K N C G I N F Z X I J X M N W T K K S V V (Right)

How many such consonants are there, each of which is immediately preceded by a vowel and also immediately followed by a consonant?

- A. Two ✓
- B. None
- C. One
- D. Three

Q13

Where was the first Lokpal Day commemoration held in 2025?

- A. Vigyan Bhawan, New Delhi
- B. Supreme Court Auditorium, New Delhi
- C. Parliament House, New Delhi
- D. Zorawar Auditorium, Manekshaw Centre, Delhi Cantt ✓

Q14

What will come in place of the question mark (?) in the following equation, if '+' and '÷' are interchanged and '-' and 'x' are interchanged?

$$368 + 46 \times 7 - 23 \div 183 = ?$$

- A. 30 ✓
- B. 33
- C. 39
- D. 38



Q15

A shopkeeper offers two successive discounts of 20% and 30% on a product marked at ₹10,000. He still makes a profit of 12% on the cost price of the product. What is the cost price and selling price of the product?

- A. Cost price = ₹4,000, Selling price = ₹5,000
- B. Cost price = ₹5,000, Selling price = ₹5,600 ✓
- C. Cost price = ₹5,000, Selling price = ₹5,500
- D. Cost price = ₹5,000, Selling price = ₹6,000

Q16

Seven boxes, T, W, Z, K, R, U and H are kept one over the other but not necessarily in the same order. Only two boxes are kept below W. T is kept immediately below K. Only one box is kept between H and W. H is kept immediately below T. U is kept immediately above Z. Which box is placed immediately above W?

- A. R ✓
- B. K
- C. T
- D. Z

Q17

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

(Left) N % Q E A L & M @ B & F > £ N H * # < L % P (Right)
How many such symbols are there, each of which are immediately preceded by a letter and immediately followed by a symbol?

- A. Two ✓
- B. One
- C. Three
- D. None

Q18

When the one-third of a number is increased by 17, the result is 72. Find the sum of the digits of the original number.

- A. 11
- B. 12 ✓
- C. 13
- D. 15

Q19

YEVA is related to KQHM in a certain way based on the English alphabetical order. In the same way, UARW is related to GMDI. To which of the given options is EKBG related, following the same logic?

- A. QNJU
- B. AQWE
- C. QWNS ✓
- D. QWCG

Q20

Among five people named V, W, X, Y and Z, each have a certain age. Y is four times the age of X. V is two times the age of X. Y is five times the age of W. The age of W is 12. If Z is thrice the age of V, what is the age of Z?

- A. 85
- B. 89
- C. 75
- D. 90 ✓

Q21

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.)

- A. PUZ ✓
- B. INT
- C. LQW
- D. CHN

Q22

Two trains, A and B, of lengths 180 m and 220 m, respectively, are running on parallel tracks in opposite directions. They cross each other in 12 seconds. If the same two trains are moving in the same direction, they take 60 seconds for the faster train to completely cross the slower one. Find the speed (in km/h) of the faster train.

- A. 80
- B. 72 ✓
- C. 64
- D. 48



Q23

Which of the following ratios is the least?

A. 7 : 13

B. 4 : 7

C. 8 : 15



D. 5 : 9

Q24

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

(Left) 627 458 347 491 567 (Right)

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

What will be the resultant if the second digit of the second highest number is added to the third digit of the lowest number?

A. 12

B. 11

C. 13



D. 14

Q25

18 is related to 54 following certain logic. Following the same logic, 33 is related to 99. To which of the following is 27 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.)

A. 85

B. 79

C. 84

D. 81

**Q26**

Namit starts from Point A and drives 26 km towards the east. He then takes a left turn, drives 25 km, turns left and drives 33 km. He then takes a left turn and drives 35 km. He takes a final left turn, drives 7 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.)

A. 13 km to the South

B. 12 km to the South

C. 11 km to the North

D. 10 km to the North

**Q27**

A, B, C, D, E, F and G are sitting around a circular table, facing the centre.

F sits third to the left of A. C sits second to the left of D.

Only A sits between E and C. B is not an immediate neighbour of F.

How many people sit between D and E when counted from the right of E?

A. 2

B. 1

C. 3



D. 4

Q28

An electronics store offers two successive discounts on a laptop priced at ₹51,000. The first discount is 10%, and the second discount is 5%. What is the final price after both discounts are applied?

A. ₹44,305

B. ₹43,605



C. ₹43,506

D. ₹46,305

Q29

What should come in place of the question mark (?) in the given series based on the English alphabetical order?
HBU NHA TNG ZTM ?

A. FDR

B. FZS



C. FSE

D. FXS

Q30

If an object is placed between infinity and the pole (P) in front of a convex mirror, what type of image will be formed?

A. Virtual, erect, and diminished (smaller in size)



B. Real, inverted, and diminished

C. Real, erect, and same size as the object

D. Real, inverted, and enlarged



Q31

Raj had a cake in the shape of a sphere of radius 8 cm. He then dipped it in chocolate and kept it in the freezer. After some time, he observed that the chocolate formed a layer of thickness 2 cm over the cake. What is the percentage increase of the surface area of the cake after it is dipped in chocolate?

A. 62.25%

B. 52.25%

C. 56.25%



D. 58.25%

Q32

Refer to the following letter series and answer the question that follows. Counting to be done from left to right only. (Left) O Q K K M I W K M F A F Y U T U B H T X S (Right) How many such consonants are there, each of which is immediately preceded by a vowel and also immediately followed by a vowel?

A. None

B. Two

C. Three

D. One



Q33

Gopal distributed ₹25200 between his two grandsons 13-year-old Akshay and 14-year-old Atul such that they get equal money when they turn 23 years old. Till then the money is in a bank getting compound interest at 10% per annum, compounded annually. How much (in ₹) Gopal deposited in the name of Atul?

A. 11750

B. 12000

C. 13550

D. 13200



Q34

Read the given statement(s) 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 statement(s).

Statements:

All kings are bombs.

No parrots are kings.

Conclusions:

(I) Some bombs are not parrots.

(II) Some bombs are kings.

A. Both conclusions (I) and (II) follow.



B. Only conclusion (II) follows.

C. Only conclusion (I) follows.

D. Neither conclusion (I) nor (II) follows.

Q35

The salary of an employee is first increased by 20% and then again increased by 10%. What is the total percentage increase in the salary?

A. 33%

B. 32%



C. 30%

D. 31%

Q36

If 2 is subtracted from each even digit and 1 is added to each odd digit in the number 6785234, then how many digits will appear more than once in the new number?

A. Two



B. One

C. Three

D. Four

Q37

When a positively charged alpha particle is passed through a thin gold foil, most of the particles pass straight through without deflection. Based on Thomson's model of the atom, which of the following best explains this observation?

A. The atom contains a small, dense nucleus that repels alpha particles.

B. Electrons revolve around the nucleus in fixed orbits.

C. The positive charge is uniformly distributed throughout the atom, and electrons are embedded in it.



D. The positive charge and mass are concentrated at the centre of the atom.



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Q38

During a sale, 48% of the goods are sold at a 31% profit, 25% of the remaining goods are sold at a 16% profit, and the rest are sold at a loss of 32%. If the overall profit is $x\%$, what is the value of x ?

A. 7.5

B. 7

C. 8

D. 4.48



Q39

Pankaj, Meera, and Ashok invest ₹62,000, ₹70,000, and ₹83,000, respectively, to start a business. At the end of the year, the total profit earned is ₹75,500. 14% of the total profit earned is given to charity and the rest is divided among them in the ratio of their profit. What will be the share of Ashok (in ₹)?

A. 24,954

B. 25,206

C. 25,183

D. 25,066



Q40

AL8 is related to EQ40 in a certain way. In the same way, MF13 is related to QK65. To which of the given options is UO5 related, following the same logic?

A. XT20

B. MT25

C. YT25



D. ZT20

Q41

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)

(156,12,13)

(126,14,9)

A. (176,16,11)



B. (196,15,13)

C. (198,24,8)

D. (240,45,5)

Q42

What happens at the boiling point of a liquid?

A. Particles expand slightly and remain in liquid form.

B. Particles lose energy and move closer together.

C. Particles gain enough energy to change into vapour.



D. Particles remain fixed and do not move at all.

Q43

Select the set in which the numbers are related in the same way as are the numbers of 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 to/subtracting from/multiplying with 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(29, 116, 348)

(22, 88, 264)

A. (17, 68, 204)



B. (15, 60, 120)

C. (26, 104, 332)

D. (21, 94, 252)

Q44

Two positive integers have HCF = 12 and LCM = 924. If one of the numbers is 84, what is the other number?

A. 132



B. 96

C. 180

D. 72

Q45

M is the mother of O. O is the sister of J. T is the daughter of K. T is the sister of J. J is the father of B. B is the wife of F. How is M related to K?

A. Brother

B. Sister

C. Husband

D. Wife



Q46

In a distribution, if the median is 42 and the mode is 36, then find the value of the mean.

A. 36

B. 45



C. 40

D. 42

Q47

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.)

A. OSV

B. LOS



C. TXA

D. GKN

Q48

What is the mode of the following data?

89, 89, 64, 86, 64, 79, 81, 85, 82, 81, 75, 85, 82, 84, 61, 82, 81, 64, 74, 71, 61, 68, 77, 64, 79

A. 81

B. 89

C. 82

D. 64



Q49

Each of A, C, I, M, O, Q and W has an exam on a different day of a week starting from Monday and ending on Sunday of the same week.

M has an exam on Thursday. Exactly 4 people have their exams between O and A, neither of whom has an exam on Sunday. Q has an exam immediately before C. I does not have an exam on Friday. O does not have an exam after C. How many people have exams after A?

A. 3

B. 1



C. 2

D. 4

Q50

In a code language, 'AGENT' is coded as GAHTN and 'ADOPT' is coded as DARTP. How will 'DRINK' be coded in the same language?

A. RDLKN



B. REKNL

C. SEKNM

D. SDLKM

Q51

In a certain code language,

'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, how is Q related to P if 'Q × M + V - J ÷ P'?

A. Sister's husband

B. Sister's son



C. Brother

D. Father

Q52

The price of an article was ₹1600. It increased by 15% in the first year and by 20% in the second year. What is the price (in ₹) of the article after two years?

A. 1920

B. 2208



C. 2106

D. 1840

Q53

Refer to the following letter series and answer the question that follows. Counting to be done from left to right only.

(Left) W U G E K L T Q J W U J V E S C V K J T C (Right)

How many such vowels are there, each of which is immediately preceded by a vowel and also immediately followed by a consonant?

A. Two

B. None



C. One

D. More than three



Q54

What sum (in ₹) will earn an interest of ₹480 in 2 years at 6% simple interest per year?

A. 4000



B. 4200

C. 4150

D. 3800

Q55

Seven boxes, T, U, V, W, X, Y and Z are kept one over the other but not necessarily in the same order. Only one box is kept above X. T is kept immediately above Y. U is placed immediately below Y. V is kept fifth from the bottom. W is kept on one of the positions below Z. What box is kept at the top?

A. Z



B. U

C. T

D. V

Q56

D, E, F, G, I, J and K are sitting around a circular table, facing the centre of the table. G is the immediate neighbour of both D and J. J sits third to the left of I. K sits to the immediate left of I. F is not an immediate neighbour of J. Who sits third to the left of E?

A. K

B. I

C. D



D. F

Q57

The ability of the eye lens to adjust its focal length to see objects clearly at different distances is called:

A. Power of convergence

B. Range of vision

C. Power of accommodation



D. Persistence of vision

Q58

Refer to the following series and answer the question (All numbers are single digit numbers only. Counting to be done from left to right.)

(Left) 3 7 2 6 2 7 3 8 7 3 7 6 4 2 4 5 4 9 5 7 7 2 4 (Right)
How many such even digits are there each of which is immediately preceded by an odd digit and also immediately followed by an even digit?

A. Two

B. Three



C. None

D. One

Q59

Nikhil sold his cycle to Ravi at a loss of 24%. Ravi spent ₹486 on its repairs and sold the cycle to Vikas for ₹2,875, thereby making a profit of 15%. Find the cost price of the cycle for Nikhil.

A. ₹2,650



B. ₹2,540

C. ₹2,460

D. ₹2,710

Q60

Refer to the following number, symbol series and answer the question that follows. Counting to be done from left to right only. All numbers are single-digit numbers. (Left) ? + > * 1 + 7 & ^ 1 ^ 7 2 8 ? & > # ? 4 @ (Right)
How many such numbers are there, each of which is immediately preceded by another number and also immediately followed by a symbol?

A. Three

B. Two

C. Four

D. One

**Q61**

Soham starts from Point A and drives 59 km towards west. He then takes a left turn, drives 67 km, turns left and drives 67 km. He then takes a left turn and drives 78 km. He takes a final left turn, drives 8 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)

A. 12 km to the north

B. 10 km to the south

C. 13 km to the south

D. 11 km to the south



Q62

In this question, a question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and decide the appropriate answer.

Among the five poles—I, N, C, H, and L—each having a different height, which pole is the shortest?

(I) L is shorter than N. H is shorter than I.

(II) H is taller than L.

A. Both statements I and II together are NOT sufficient to answer the question



B. Both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question

C. Data in statement II alone is sufficient to answer the question while data in statement I is not

D. Data in statement I alone is sufficient to answer the question while data in statement II is not

Q63

Which breed of cattle is primarily used for dairy purposes in India?

A. Ongole

B. Gir

C. Sahiwal



D. Kankrej

Q64

Which of the following equations correctly relates the resistance (R) of a conductor to its length (l), area of cross-section (A), and resistivity (ρ)?

A. $R = \rho l / A$



B. $R = A / \rho l$

C. $R = \rho A / l$

D. $R = l / \rho A$

Q65

Which of the following substance groups represents the non-biodegradable substances?

A. Vegetable peels, flowers, paper

B. Grasses, spoilt food, vegetable peels

C. Spoilt food, vegetable peels, used tea leaves

D. Plastic bubble pack, regular milk packets, medicine plastic bottles



Q66

In a certain code language, 'HATS' is coded as '2743' and 'AHUS' is coded as '7483'. What is the code for 'U' in the given code language?

A. 8



B. 7

C. 3

D. 4

Q67

If 'A' stands for '+', 'B' stands for 'x', 'C' stands for '+' and 'D' stands for '-', then what will come in place of the question mark (?) in the following equation?

75 A 3 D 14 C 9 B 4 = ?

A. 47



B. 63

C. 59

D. 31

Q68

An ottoman with side 50 cm is a magnified version of a 6-sided white cubical die with black circular spots from 1 to 6 engraved on its faces. If each engraved spot is a circle of diameter 10 cm, what is the total surface area (in cm^2 , rounded off to the nearest integer) of the cubical die that is not engraved?

A. 12422

B. 13351



C. 15330

D. 12354



Q69

Evaluate $6.84\bar{1} - 2.69\bar{1}$

A. $\frac{3835}{1100}$

B. $\frac{3735}{900}$ ✓

C. $\frac{3635}{909}$

D. $\frac{4035}{900}$

Q70

A tank has three pipes A, B and C. A and B are inlet pipes while C is an outlet pipe. Pipe A can fill the tank in 15 minutes. Pipe B can fill it in 20 minutes. Pipe C can empty it in 30 minutes. The pipes are opened in the following cycle.

- Minute 1: Only A
- Minute 2: Only B
- Minute 3: Only C

The cycle repeats till the tank is full. How much time would it take to completely fill the tank?

A. $34\frac{1}{3}$ minutes ✓

B. 36 minutes

C. $27\frac{2}{3}$ minutes

D. 32 minutes

Q71

Simplify: $\frac{\sin A \cdot \tan A}{1 - \cos A} - \frac{\cos A \cdot \cot A}{1 - \sin A}$

A. $\sec A - \operatorname{cosec} A$ ✓

B. $\operatorname{cosec} A - \sec A$

C. $\sin A - \cos A$

D. $\cos A - \sin A$



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Q72

A man goes from point A to point B at a speed of 13 km/h and returns from B to A at a speed of 10 km/h using the same route. The average speed (in km/h) for the whole journey is:

A. $12\frac{1}{23}$

B. $11\frac{16}{23}$

C. $11\frac{7}{23}$ ✓

D. $10\frac{22}{23}$

Q73

A student's marks were incorrectly entered as 23 instead of 59. Due to this, the average marks of the class got decreased by $\frac{9}{7}$. What is the number of students in the class?

A. 28 ✓

B. 35

C. 36

D. 30

Q74

$$-\frac{1}{10} - \frac{1}{9} - \frac{1}{3} \frac{1}{3}$$

A. $-\frac{1}{10}$

B. $\frac{1}{3}$

C. $-\frac{1}{3}$ ✓

D. $-\frac{1}{9}$

Q75

Tap A can empty a tank in 30 minutes. Tap B can empty it in 15 minutes. If both the taps operate simultaneously, how much time is needed to empty the tank?

A. 30 minutes

B. 40 minutes

C. 20 minutes

D. 10 minutes ✓



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Q1

A machine does 1000 J of work in 5 seconds. Its power is:

- A. 50 W
B. 100 W
C. 200 W
D. 500 W



Q2

What should come in place of ? in the given series?

36 40 46 50 56 ?

- A. 61
B. 60
C. 62
D. 59



Q3

L, K, H, M, Z and U 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 is numbered 6. L lives immediately below H. Z lives immediately below U. Only three people live between M and Z. K does not live on the topmost floor. H does not live on any floors below U. How many people live between H and K?

- A. Two
B. Three
C. One
D. Four



Q4

Select the triad which follows the same pattern as that followed by the two triads given below. Both pairs follow the same pattern.

GLMT : MQQW
DQCL : JVGO

- A. IOYS : OTCV
B. HNEX : NSIB
C. LGTM : RLWP
D. FYZN : LDEQ



Q5

Each of K, L, U, G, A, B and W has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. K has an exam on Tuesday. G has exam on the day immediately before U. Only three people have exams between B and L. L has exam on the day immediately before G. U has an exam on Sunday. W has exam on the day immediately after K. How many people have exams before A?

- A. 1
B. 2
C. 4

D. 3



Q6

Anand purchased an item and spent ₹175 on its repair. He then sold it to Bharath at a profit of 25%. Later, Bharath sold the item for ₹3,402, incurring a loss of 58%. What was Anand's cost (in ₹) of the item just before selling it to Bharath?

- A. 6480
B. 6483
C. 6481
D. 6478



Q7

A sum of ₹5,890 is divided between Alok, Gita and Suresh such that if their shares are decreased by ₹320, ₹590 and ₹750, respectively, then they are in the ratio of 9 : 3 : 6. What is the original share of Gita?

- A. ₹1,209
B. ₹1,157
C. ₹1,380

D. ₹1,295



Q8

Why is a colloid considered stable?

- A. Its particles do not settle down when left undisturbed.
B. Its particles react chemically with the dispersion medium.
C. Its particles dissolve completely in the dispersion medium.
D. Its particles can be separated easily by filtration.



Q9

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.)

A. OL - JG

B. UR - PM

C. LI - GD

D. SP - LJ

Q10

The reaction of sodium hydrogen carbonate upon heating produces:

A. Sodium hydroxide, oxygen, and carbon monoxide at high temperature

B. Sodium sulfate, hydrogen, and carbon dioxide when strongly heated

C. Sodium chloride, water, and hydrogen gas under normal heating

D. Sodium carbonate, water, and carbon dioxide gas during cooking

Q11

Each of Akarsh, Bindu, Chetu, Divyansh, Ekam, Fatima and Gudiya 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 after Ekam. Only two persons have exam before Akarsh. Bindu has exam immediately before Divyansh and only one person has exam between Divyansh and Gudiya. Gudiya has exam on Sunday. Chetu's exam is not on the first day of the week. On which day does Chetu have the exam?

A. Wednesday

B. Monday

C. Tuesday

D. Friday

Q12

Five friends Varun, Ankit, Neha, Adya and Ruby are of different ages. Only Adya is older than Ankit. Exactly two people are younger than Ruby. Varun is younger than Neha. How many people among them are older than Neha?

A. One

B. Two

C. Four

D. Three

Q13

LOVE is related to QKYC in a certain way based on the English alphabetical order. In the same way, ILSG is related to NHVE. To which of the following is QNVT related, following the same logic?

A. VJYR

B. UKYR

C. VJXQ

D. UKXQ

Q14

What is the mode of the following data?

55, 50, 48, 43, 55, 41, 54, 51, 41, 45, 53, 54, 52, 41, 49, 54, 41, 49

A. 54

B. 41

C. 49

D. 55

Q15

Which of the following is commonly known as the Indian bee?

A. *Apis cerana indica*

B. *Apis dorsata*

C. *Apis florea*

D. *Apis mellifera*

Q16

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.)

A. PR- SU

B. GI-JL

C. AW - KP

D. AC-DF



Q17

Which of the following cities hosted World Para Athletics Championships 2025?

- A. Bengaluru
- B. Jaipur
- C. New Delhi
- D. Mumbai

Q18

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.)

- A. EF-HL
- B. VW-ZA
- C. OP-ST
- D. MN-QR

Q19

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 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).

3 - 28
9 - 730

- A. 8 - 645
- B. 1 - 2
- C. 7 - 342
- D. 5 - 124

Q20

Refer to the following number, symbol series and answer the question that follows. Counting to be done from left to right only. All numbers are single-digit numbers.
(Left) ^ 7 + > 6 \$ > 2 8 4 6 \ 2 & 9 ? + ^ # < % (Right)
How many such numbers are there each of which is immediately preceded by a symbol and also immediately followed by a symbol?

- A. Two
- B. One
- C. Four
- D. Three

Q21

In a certain code language, 'SONG' is coded as '9785' and 'GONE' is coded as '5867'. What is the code for 'E' in the given code language?

- A. 5
- B. 7
- C. 8
- D. 6

Q22

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

(Left) 629 574 315 681 459 (Right)

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

What will be the resultant if the second digit of the highest number is added to the third digit of the lowest number?

- A. 12
- B. 11
- C. 13
- D. 10



Q23

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 speakers are radios.
No radio is a television.

Conclusions:

- (I) No speaker is a television.
(II) Some televisions are radios.

A. Both conclusions (I) and (II) follow.

B. Only conclusion (I) follows. ✓

C. Neither conclusion (I) nor (II) follows.

D. Only conclusion (II) follows.

Q24

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 cricketers are doctors.
All cricketers are pilots.

Conclusions:

- (I) Some doctors are pilots.
(II) All pilots are cricketers.

A. Only conclusion (II) follows

B. Only conclusion (I) follows ✓

C. Neither conclusion (I) nor (II) follows

D. Both conclusions (I) and (II) follow

Q25

On reaching an organ or tissue, arteries divide into smaller and smaller vessels. The smallest vessels have walls that are one cell thick and are called:

A. veins

B. arterioles

C. arteries

D. capillaries ✓

Q26

A shopkeeper sells an item for ₹324.3 after giving two successive discounts of 60% and 31% 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?

A. 947

B. 940 ✓

C. 968

D. 917

Q27

What sum (in ₹) will earn an interest of ₹480 in 3 years at 5% simple interest per year?

A. 3350

B. 3000

C. 3200 ✓

D. 3400

Q28

If the radius of the base of a right circular cylinder is decreased by 19% and its height is increased by 129%, then what is the percentage increase in its volume? [Give your answer correct to the nearest integer value.]

A. 66%

B. 36%

C. 28%

D. 50% ✓

Q29

Each vowel in the word CRUMBLE 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. Which of the following letters will be third from the left in the new group of letters thus formed?

A. V ✓

B. Q

C. A

D. L



Q30

In this question, a question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and decide the appropriate answer.

Among the five poles—R, A, M, E, and N—each having a different height, which pole is the shortest?

(I) N is taller than M

(II) E is taller than N. R is only shorter than one pole

A. Both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question

B. Both statements I and II together are NOT sufficient to answer the question

C. Data in statement II alone is sufficient to answer the question while data in statement I is not

D. Data in statement I alone is sufficient to answer the question while data in statement II is not

Q31

Each letter in the word **VISION** is changed to the letter immediately following it in the English alphabetical order, and then all the letters thus formed are arranged in reverse alphabetical order. Which letter will be fourth from the left?

A. O

B. W

C. U

D. T

Q32

What is the overall percentage increase in a number if it is increased successively by 10%, 20%, and 15%?

A. 41.8%

B. 55.8%

C. 51.8%

D. 45.8%

Q33

A 12 m tall building casts a shadow of 8 m at a certain time of the day. At the same time, a vertical pole with a flag on top casts a shadow of 15 m. If the height of the flag alone is 3 m, find the height of the pole.

A. 21 m

B. 19.5 m

C. 18 m

D. 17.5 m

Q34

Refer to the following letter series and answer the question that follows. Counting to be done from left to right only. (Left) A Q D F H S I C X Z A Q D F H G U Z A O G U K (Right) How many such consonants are there, each of which is immediately preceded by a vowel and also immediately followed by a vowel?

A. One

B. None

C. Three

D. Two

Q35

Which of the following is the correct method to change any provision of the Constitution of India?

A. Supreme Court Approval

B. Executive Order

C. Constitutional Amendment

D. Presidential Ordinance

Q36

What will come in place of the question mark (?) in the following equation, if '+' and '÷' are interchanged and '-' and 'x' are interchanged?

$$195 + 5 \times 44 - 6 \div 320 = ?$$

A. 95

B. 91

C. 109

D. 113

Q37

What should come in place of the question mark (?) in the given series?

64 68 80 84 96 100 112 ?

A. 118

B. 120

C. 116

D. 124



Q38

Arman starts from Point A and drives 61 km towards west. He then takes a right turn, drives 58 km, turns right and drives 64 km. He then takes a right turn and drives 71 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)

A. 13 km to the north



B. 12 km to the north

C. 15 km to the south

D. 14 km to the south

Q39

Which of the following ratios is the greatest: 8 : 11, 5 : 7, 13 : 17, or 11 : 13?

A. 11 : 13



B. 13 : 17

C. 8 : 11

D. 5 : 7

Q40

If 'A' stands for ' $\div$ ', 'B' stands for ' $\times$ ', 'C' stands for ' $+$ ' and 'D' stands for ' $-$ ', then what will come in place of the question mark (?) in the following equation?

26 A 2 C 14 B 4 D 18 = ?

A. 62

B. 70

C. 51



D. 44

Q41

In a certain code language,
'A + B' means 'A is the mother of B',
'A - B' means 'A is the brother of B',
'A $\times$ B' means 'A is the wife of B' and
'A $\div$ B' means 'A is the father of B'.
How is M related to K if $J \times K - L \div M + N$?

A. Brother's daughter



B. Wife's father

C. Mother's husband

D. Father's brother

Q42

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

CLW WFQ QZK KTE ?

A. RDF

B. ECD

C. ENT

D. ENY



Q43

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)

(18, 5, 85)

(11, 7, 72)

A. (15, 6, 85)



B. (9, 7, 68)

C. (8, 4, 32)

D. (10, 8, 85)

Q44

If the interest earned during the 2nd year on a certain sum is ₹8063, and the rate of interest is 10% per annum compounded annually, then the sum is:

A. ₹72750

B. ₹74250

C. ₹73300



D. ₹73705

Q45

Six friends D, E, F, G, J and K are sitting in a straight line facing north. No one sits to the right of K. Only one person sits between F and K. Only three people sit between K and J. G sits at some place to the left of D but at some place to the right of E. How many people sit between E and D?

A. Three



B. Two

C. One

D. Four



Q46

Refer to the following number and symbol series and answer the question that follows. Counting to be done from left to right only. All numbers are single-digit numbers.

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

How many such symbols are there, each of which is immediately preceded by an odd number but not immediately followed by an even number?

A. Two



B. None

C. One

D. Three

Q47

A question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and decide the appropriate answer.

Q. Four people – **Arvind, Bipin, Chetak, and Divyesh** – are seated in a row facing south.

Who is seated second from the left end?

(I) Bipin is seated immediately to the right of Arvind.

(II) Divyesh is seated at the extreme right end.

A. Data in Statement I alone is sufficient to answer the question while data in Statement II is not

B. Data in both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question

C. Data in Statement II alone is sufficient to answer the question while data in Statement I is not

D. Data in both statements I and II together are NOT sufficient to answer the question

**Q48**

A, B, C, D, E, F and G live on seven 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 is numbered 7. Only two persons live above C. Only two persons live between C and E. B lives immediately above E. D lives immediately below F. A does not live on the lowermost floor. On which floor number does A live?

A. Floor number 2

B. Floor number 3

C. Floor number 6

D. Floor number 4

**Q49**

There are 2,100 members in a local group. In 2019, the number of members increased by 15%. In 2020, however, the number decreased by 20%. What is the total number of members after these two changes?

A. 1836

B. 1932



C. 1905

D. 1754

Q50

D, E, F, G, K, L, and M are sitting around a circular table, facing the centre of the table. F sits fourth to the left of E. M sits fourth to the right of G. Only two people sit between E and G when counted from the left of E. D is not an immediate neighbour of M or E. K is not an immediate neighbour of D.

Who sits third to the right of L?

A. K



B. D

C. M

D. F

Q51

What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$29 - 6 + 19 \times 19 \div 8 = ?$$

A. 27



B. 25

C. 28

D. 29

Q52

When a sound is produced, what travels through the medium?

A. Neither particles nor disturbance

B. The disturbance created by the sound source



C. The particles of the medium

D. Both the particles and the disturbance



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Q53

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

ALI : BIE
IHK : JFG

- A. IPN : IMI
- B. FQO : FNJ
- C. BFK : BBG
- D. CJE : DGA

**Q54**

During a sale, 40% of the goods are sold at a 44% profit, 25% of the remaining goods are sold at a 29% profit and the rest are sold at a 39% loss. If there is an overall profit of x%, then what is the value of x?

- A. 4.4%
- B. 7.5%
- C. 15%
- D. 10.5%

**Q55**

The marked price of an item is 10% higher than the cost price and a discount of 10% is given on the marked price. What is the percentage gain or loss to the business owner in this sale?

- A. 2% loss
- B. 2% gain
- C. 1% gain
- D. 1% loss

**Q56**

Refer to the following letter series and answer the question that follows. Counting to be done from left to right only.

(Left) F J A F Y H J I D X Q O B C O P O G F I O G (Right)

How many such consonants are there, each of which is immediately preceded by a consonant and also immediately followed by a consonant?

- A. 3
- B. 6
- C. 5
- D. 4

**Q57**

Three pipes P, Q and R can fill a tank in 6 hours. After working at it together for 2 hours, R is closed, and P and Q can fill the remaining part in 7 hours. Find the number of hours taken by R alone to fill the tank.

- A. 12
- B. 14
- C. 16
- D. 18

**Q58**

Which of the following functions of mitochondria makes it a powerhouse of the cell?

- A. Generation of enzymes
- B. Generation of heat
- C. Generation of ATP
- D. Generation of NADPH

**Q59**

In a certain code language, 'CASH' is coded as '1937' and 'EAHS' is coded as '9163'. What is the code for 'E' in the given code language?

- A. 1
- B. 3
- C. 6
- D. 9

**Q60**

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'.

Based on the above, how is D related to R if 'D @ M # S - P + R'?

- A. Father
- B. Wife's father
- C. Brother
- D. Wife's brother



Q61

Which of the following statements correctly defines refraction of light?

- A. Scattering of light by air molecules
- B. Splitting of light into seven colours
- C. Change in direction of light when it passes from one medium to another ✓
- D. Bending of light when it falls on a mirror

Q62

A racer car covers the first 160 km at a speed of 80 km/hr, another 160 km at 120 km/hr and the last 160 km at 80 km/hr. Find out average speed of the racer car for the entire journey.

- A. 100 km/hr
- B. 90 km/hr ✓
- C. 105 km/hr
- D. 95 km/hr

Q63

24 is related to 74 following a certain logic. Following the same logic, 36 is related to 110. To which of the given options is 51 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 to/subtracting from/multiplying with 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- A. 261
- B. 155 ✓
- C. 266
- D. 151

Q66

If $4x^2 + \frac{1}{4x^2} = 14$, what is the positive value of $x + \frac{1}{4x}$?

- A. 1
- B. 4
- C. 2 ✓
- D. 8

Q64

What should come in place of the question mark (?) in the given series based on the English alphabetical order? DHS HLW LPA PTE ?

- A. TXS
- B. TIX
- C. TCD
- D. TXI ✓

Q65

Mohit starts from Point A and drives 24 km towards the east. He then takes a right turn, drives 23 km, turns right and drives 26 km. He then takes a right turn and drives 27 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.)

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



Q67

The simplified value of $\left(\frac{\sqrt[3]{2744}}{\sqrt[4]{4096}}\right) \times \frac{4}{42} \times 84$ is

A. 22

B. 14

C. 15

D. 13

Q68

A speedboat, whose speed is 16 km/hr in still water, travels 40 km downstream and returns in a total of 6 hours 24 minutes. What is the speed of the stream (in km/hr)?

A. $2\sqrt{14}$ B. $3\sqrt{14}$ C. $3\sqrt{7}$ D. $2\sqrt{7}$

Q69

From a point in the interior of an equilateral triangle, the length of the perpendiculars to the three sides are 18 cm, 30 cm and 39 cm respectively.

If the area of the triangle is $m\sqrt{k}$ cm², then find the value of $m - k^7$.

A. 333

B. 306

C. 336

D. 363

Q70

A student's marks were incorrectly entered as 32 instead of 96. Due to this, the average marks of the class got decreased by $\frac{4}{3}$. What is the number of students in the class?

A. 45

B. 48

C. 51

D. 54

Q71

If mean of 10 observations $x_1, x_2, \dots, x_{10}$ is 20, then the value of $\sum_{i=1}^{10} \left(\frac{3x_i - 4}{5}\right)$ is:

A. 110

B. 111

C. 113

D. 112



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Q72

Simplify: $2 - [2 - 3\{2 - (2 - 4)\} \div 2]$

- A. 8
- B. 2
- C. 4
- D. 6



Q73

In $\triangle PQR$, points M and N lie on sides PQ and PR respectively, such that MN is parallel to QR. If $PM:QM = 4:7$ and area of $\triangle PMN = 36 \text{ m}^2$, find the area of trapezium MQRN.

- A. 216.36 cm²
- B. 222.86 cm²
- C. 248.15 cm²
- D. 236.25 cm²



Q74

150 days120 days140 days130 days

- A. 140 days
- B. 120 days
- C. 130 days
- D. 150 days



Q75

A toy is in the form of a solid cone having a radius of 5 cm and a height of 12 cm. It is mounted on a frustum of a solid cone, with the toy's vertex pointed upwards, and the frustum's smaller base having a radius of 5 cm. The larger base of the frustum has a radius of 22 cm. The slant height of the frustum is 32 cm. What is the total surface area (in cm²) of the toy?

- A. 1314π
- B. 1341π
- C. 1413π
- D. 1431π



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Q1

Bharat, Jyoti, and Vishal invest ₹70,000, ₹32,000, and ₹46,000, respectively, to start a business. At the end of the year, the total profit earned is ₹52,540. 60% of the total profit earned is given to charity and the rest is divided among them in the ratio of their profit. What will be the share of Vishal (in ₹)?

A. 6,532



B. 6,453

C. 6,520

D. 6,380

Q2

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:

No rugs are lamps.

No doors are rugs.

Conclusions:

(I) No doors are lamps.

(II) Some lamps are doors.

A. Both conclusions (I) and (II) follow.

B. Neither conclusion (I) nor (II) follows.



C. Only conclusion (I) follows.

D. Only conclusion (II) follows.

Q3

Seven boxes, M, N, O, P, Q, R and S, are kept one over the other but not necessarily in the same order. P is kept third from the bottom. Only one box is kept between P and M but M is not kept in the lowermost position. Only three boxes are kept between M and R. O is kept immediately below Q. Only one box is kept between O and N. Which box is second from the top?

A. O



B. R

C. N

D. Q

Q4

NQMI is related to TWSO in a certain way based on the English alphabetical order. In the same way, DHKF is related to JNQL. To which of the following is LOPS related, following the same logic?

A. QUUX

B. QVVX

C. RUVY



D. RVUY

Q5

Five students, P, Q, R, S, and T, have different heights. P is taller than Q but shorter than R. S is not the shortest. Only one student is shorter than T. Who among them is the shortest?

A. S

B. Q



C. P

D. R

Q6

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.)

A. OID

B. CVR



C. GAV

D. JDY

Q7

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

ZHW UCR PXM KSH ?

A. FCD

B. FCN

C. FDR

D. FNC



Q8

What is the mode of the following data?

77, 85, 87, 75, 78, 62, 68, 61, 90, 63, 61, 71, 69, 77, 75, 82, 75, 69, 74, 75, 70, 81, 65, 66, 61

A. 69

B. 75



C. 77

D. 61

Q9

A cistern can be filled by a tap in 5 hours and emptied by an outlet pipe in 9 hours. How long will it take to fill the cistern if both the tap and the pipe are opened together?

A. 11 hours 15 minutes



B. 11 hours 25 minutes

C. 12 hours 25 minutes

D. 12 hours 15 minutes

Q10

What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$5 \times 39 \div 39 + 39 - 5 = ?$$

A. -27

B. -29



C. -30

D. -31

Q11

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 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.)

$$112 - 100$$

$$34 - 22$$

A. 23 - 12

B. 15 - 3



C. 43 - 23

D. 55 - 42

Q12

Three pipes of diameters 2 cm, 3 cm and 4 cm are running together to fill a cistern. The smallest pipe alone can fill the cistern in 232 minutes. The amount of water flowing in each pipe is proportional to the square of its diameter. The time (in minutes) taken by all pipes running together to completely fill the cistern is:

A. 42

B. 36

C. 32



D. 40

Q13

For an echo to be heard clearly, the reflecting surface should be at least how far from the listener? (Take speed of sound ≈ 340 m/s)

A. 34 m

B. 50 m

C. 100 m

D. 17 m



Q14

In 2025, which Indian state unveiled plans to establish the country's first Quantum Computing Village?

A. Andhra Pradesh



B. Tamil Nadu

C. Kerala

D. Haryana

Q15

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)

(8,168,7)

(9,243,9)

A. (12,252,7)



B. (13,325,9)

C. (16,324,8)

D. (15,330,8)



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Q16

A product's price after successive discounts of 20% and 10% is ₹7,200. What was the original price of the product before any discounts were applied?

A. ₹12,000

B. ₹10,000



C. ₹9,000

D. ₹11,000

Q17

On the basis of function, the plasma membrane is _____ in nature.

A. selectively permeable



B. fully non-permeable

C. semi-permeable

D. fully permeable

Q18

A car travels 120 km at 60 km/h, then 200 km at 80 km/h, but during the second segment, it experiences a total stoppage time of 20 minutes due to traffic. After that, it covers the final 150 km at 100 km/h. What is the average speed (in km/h, rounded off to one decimal place) of the car for the entire journey including stoppage times?

A. 72.4

B. 73.5

C. 75.3

D. 74.2



Q19

The distance between the pole and the principal focus of a spherical mirror is called:

A. Focal length



B. Magnification

C. Aperture

D. Radius of curvature

Q20

In a certain code language,
'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',
'A @ B' means 'A is the sister of B'.

How is S related to U if 'S @ M - H # Y % U'?

A. Daughter

B. Brother's daughter

C. Sister

D. Sister's daughter



Q21

If the energy of an electron in the second orbit of hydrogen is -3.4 eV, what is the energy in the fourth orbit?

A. -13.6 eV

B. -0.85 eV



C. -1.7 eV

D. -6.8 eV

Q22

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.)

A. JI-LK

B. XW-ZY

C. GH-PQ



D. BA-DC

Q23

The cilia in the upper respiratory tract primarily help in:

A. Pumping blood to lungs

B. Gas exchange

C. Absorbing oxygen

D. Removing harmful particles from inhaled air



Q24

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

(Left) # P & T £ @ G \$ G V M & X M @ # & L L @ K Y (Right)
How many such letter are there, each of which is immediately preceded by a symbol and also immediately followed by a symbol?

A. 5

B. 3

C. 4

D. 2

Q25

In a division sum, the divisor is 2 times the quotient and 4 times the remainder. If the remainder is 22, what is the dividend?

A. 3889

B. 3892

C. 3894

D. 3899

Q26

What should come in place of the question mark (?) in the given series?

25 29 34 40 47 55 ?

A. 62

B. 66

C. 64

D. 68

Q27

Each letter in the word SHOCKED is changed to the letter immediately preceding it in the English alphabetical order and then all the letters thus obtained are arranged in the English alphabetical order. Which of the following letters will be second from the right in the new group of letters thus formed?

A. N

B. G

C. D

D. J

Q28

Anand purchased an item and spent ₹63 on its repair. He then sold it to Bharath at a profit of 25%. Later, Bharath sold the item for ₹8415, incurring a loss of 15%. What was Anand's cost (in ₹) of the item just before selling it to Bharath?

A. 7920

B. 7917

C. 7919

D. 7918

Q29

In the following number-pairs, the second number is obtained by applying certain mathematical operation(s) to the first number. Which numbers should replace X and Y, so that the pattern followed by the two numbers on the left side of :: is the same as that on the right side of ::?

(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 to/subtracting from/multiplying with 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

X : 98 :: 196 : Y

A. X = 47, Y = 101

B. X = 98, Y = 96

C. X = 104, Y = 185

D. X = 116, Y = 178

Q30

Why do we feel cool after applying water on our skin in summer?

A. Water increases body temperature by absorbing sunlight

B. Water reduces sweat formation and retains body heat

C. Condensation of water releases energy on the skin surface

D. Evaporation of water absorbs heat from the skin surface



Q31

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

(Left) K Ω T & R \$ S @ B * L % N # P £ D Ω G \$ M (Right)
How many such letters are there, each of which is immediately preceded by a symbol and also immediately followed by another symbol?

- A. Three
- B. One
- C. Two
- D. More than three

Q32

A question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and decide the appropriate answer.

Q. Four people – **Amit, Bhavesh, Chandan, and Dhiraj** – are of different ages.

Who is the oldest?

- (I) Bhavesh is older than Amit but younger than Dhiraj.
- (II) Chandan is younger than Dhiraj but older than Amit.

- A. Data in both statements I and II together are NOT sufficient to answer the question
- B. Data in Statement I alone is sufficient to answer the question while data in Statement II is not
- C. Data in both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question
- D. Data in Statement II alone is sufficient to answer the question while data in Statement I is not

Q33

PL 2 is related to LO 15 in a certain way. In the same way, NJ 5 is related to JM 18. To which of the given options is NP 3 related, following the same logic?

- A. IT 14
- B. JS 16
- C. JT 14
- D. IS 16

Q34

Oaths and affirmations for various constitutional posts are provided in which Schedule of the Indian Constitution?

- A. Eleventh Schedule
- B. Ninth Schedule
- C. Third Schedule
- D. First Schedule

Q35

Select the pair which follows the same pattern as that followed by the two set of pairs given below. Both pairs follow the same pattern.

NLGT : SPJV
DQCL : IUFN

- A. WXYZ : BBBC
- B. JPZS : OTCU
- C. KNMS : PRPV
- D. RMEF : WRHH

Q36

Each of Gauri, Hina, Isha, Jack, Kunti, Lali and Mahima has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. Gauri has an exam on Monday. Only three persons have exams between Gauri and Kunti. Hina has exam immediately after Jack and Hina has exam immediately before Isha. Lali does not have an exam on the last day. On which day does Lali have the exam?

- A. Saturday
- B. Tuesday
- C. Wednesday
- D. Sunday

Q37

A, B, D, U, P and K 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 is numbered 6. U lives on an odd-numbered floor but not on the lowermost floor. Only one person lives between U and P. D does not live on the lowermost floor. K lives immediately above D. B lives immediately above U. A lives immediately below U. Who lives on Floor 2?

- A. B
- B. U
- C. P
- D. A

Q38

In a code language, 'SAND' is coded as WDRG and 'BIRD' is coded as FLVG. How will 'FOUR' be coded in the same language?

- A. JRYU
- B. IRYW
- C. ISXV
- D. JSXV



Q39

The mean of a data is four times of its mode. If the median of the data is 63, find its mean.

- A. 72
- B. 93
- C. 63
- D. 84



Q40

Which of the following processes is responsible for the transportation of soluble products formed by photosynthesis in different parts of plant?

- A. Transpiration
- B. Translocation
- C. Termination
- D. Assimilation



Q41

Megaphones, loudhailers, horns and musical instruments like trumpets and shehnais are designed to:

- A. Spread sound equally in all directions
- B. Send sound in a specific direction
- C. Reduce the loudness of sound
- D. Absorb sound waves



Q42

The cost of 7 kg of sugar of quality A is ₹245, and the cost of 5 kg of sugar of quality B is ₹300. In what ratio should quality A sugar and quality B sugar be mixed so that the cost of 1 kg of the mixture is ₹50?

- A. 3 : 4
- B. 4 : 3
- C. 2 : 3
- D. 3 : 2



Q43

If the cost price of 12 identical books is ₹960 and the cost price of 8 identical pens is ₹320, find the total cost price (in ₹) of 15 books and 10 pens of the same kind.

- A. 1200
- B. 1600
- C. 1800
- D. 1500



Q44

4% of a number is what percentage of 20% of the same number?

- A. 8.33%
- B. 20%
- C. 500%
- D. 16.67%



Q45

A shopkeeper sells an item for ₹430.5 after giving two successive discounts of 70% 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?

- A. 4,145
- B. 4,100
- C. 4,081
- D. 4,121



Q46

What sum (in ₹) will earn an interest of ₹480 in 2 years at 12% simple interest per year?

- A. 2200
- B. 2000
- C. 1800
- D. 2150



Q47

During a sale 50% of the goods are sold at 40% profit, 30% of the remaining goods are sold at 46% profit and the still remaining goods are sold at a loss of 24%. If there is an overall profit of x%, then what is the value of x?

- A. 20
- B. 18.5
- C. 19
- D. 17.5



Q48

Atul distributed ₹24700 between his two grandsons 12-year-old Baban and 13-year-old Rakesh such that they get equal money when they turn 23 years old. Till then the money is in a bank getting compound interest at 8% per annum, compounded annually. How much (in ₹) Atul deposited in the name of Rakesh?

A. 11625

B. 13175

C. 12825

D. 11875

Q49

Refer to the following letter series and answer the question that follows. Counting to be done from left to right only.

(Left) F U V G Q R T N E S C T E U S R R S Q Q Y (Right)

How many such vowels are there, each of which is immediately preceded by a consonant and also immediately followed by a consonant?

A. One

B. Two

C. None

D. More than three

Q50

A question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and decide the appropriate answer.

Q. Four bags – **Atlas, Bolt, Cargo, and Drift** – have different weights.

Which bag is heavier: Bolt or Cargo?

(I) Atlas is heavier than Bolt but lighter than Drift.

(II) Cargo is lighter than Drift but heavier than Atlas.

A. Data in Statement II alone is sufficient to answer the question while data in Statement I is not

B. Data in both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question

C. Data in Statement I alone is sufficient to answer the question while data in Statement II is not

D. Data in both statements I and II together are NOT sufficient to answer the question

Q51

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

(Left) 567 254 395 486 671 (Right)

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

What will be the resultant if the third digit of the highest number is added to the third digit of the lowest number?

A. 5

B. 4

C. 3

D. 2

Q52

The price of an article was ₹1600, It increased by 10% in the first year and by 20% in the second year. What is the price (in ₹) of the article after two years?

A. 2144

B. 2112

C. 1840

D. 2000

Q53

Each of A, B, C, D, E, F and G play a game on a different day of a week starting from Monday and ending on Sunday of the same week. B plays the game on Wednesday. Only three persons play between B and F. Only one person plays between C and F. A plays immediately before D. G does not play immediately after B. On which day does A play the game?

A. Friday

B. Sunday

C. Tuesday

D. Monday

Q54

What should come in place of ? in the given series?

91 97 106 118 133 ?

A. 150

B. 151

C. 152

D. 153



Q55

Seven people, A, B, C, D, E, F and G, are sitting in a row, facing north. No one sits to the right of E. Only three people sit between E and D. Only two people sit between D and A. F sits third to the left of B. G sits to the immediate right of B. How many people sit between B and E?

A. 1

B. 4

C. 2

D. 3

Q56

Each letter in the word BANNER is changed to the letter immediately preceding it in the English alphabetical order, and then all the letters thus formed are arranged in reverse alphabetical order. Which letter will be third letter from the right in the new number thus formed?

A. L

B. M

C. C

D. B

Q57

Paritosh starts from Point A and drives 22 km towards South. He then takes a right turn, drives 12 km, turns right and drives 26 km. He then takes a right turn and drives 23 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.)

A. 10 km to the west

B. 10 km to the east

C. 11 km to the east

D. 11 km to the west

Q58

What will come in place of the question mark (?) in the following equation, if '+' and '÷' are interchanged and '-' and 'x' are interchanged?

$$312 + 6 \times 8 - 21 \div 169 = ?$$

A. 51

B. 55

C. 59

D. 53

Q59

A person drove at 59 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.

A. 61

B. 59

C. 66

D. 57

Q60

If 'P' stands for 'x', 'Q' stands for '÷', 'R' stands for '-' and 'S' stands for '+', then what will come in place of the question mark (?) in the following equation?

$$70 Q 2 R 5 P 3 S 18 = ?$$

A. 38

B. 21

C. 54

D. 48

Q61

A solid metal sphere is melted and smaller spheres of equal radii are formed. 5% of the volume of the sphere is lost during the process. The smaller sphere has a radius that is one-tenth of the large sphere. If 14 liters of paint was needed to paint the larger sphere, how many liters is needed to paint all the smaller spheres?

A. 44 liters

B. 102 liters

C. 133 liters

D. 154 liters



Q62

Read the given statement(s) 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 statement(s).

Statements:

Some buttons are mangoes.
Some pigs are mangoes.

Conclusions:

- (I) Some buttons are pigs.
(II) All mangoes are buttons.

A. Neither conclusion (I) nor (II) follows. ✓

B. Only conclusion (II) follows.

C. Only conclusion (I) follows.

D. Both conclusions (I) and (II) follow.

Q63

In a certain code language, 'book is published ' is coded as 'cw ku qr' and 'book was interesting' is coded as 'ot qr zx'. How is 'book' coded in the given language?

A. ku

B. qr ✓

C. cw

D. ot

Q64

D, E, F, G, I, J and K are sitting around a circular table, facing the centre of the table.
E sits to the immediate left of I. F sits to the immediate left of D. D sits second to the left of K. G sits third to the left of I.
Who sits third to the right of J?

A. D

B. K

C. F

D. G ✓

Q65

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.)

A. PN - QO

B. RP - BJ ✓

C. FD - GE

D. MK - NL

Q66

Each vowel in the word JOURNAL 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 new group of letters thus formed?

A. 1 ✓

B. 2

C. 3

D. 0

Q67

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'.

Based on the above, how is D related to R if 'D # M - S + P @ R'?

A. Brother's daughter

B. Brother's wife's mother

C. Brother's wife

D. Brother's wife's sister ✓



Q68

Vinay starts to walk from point A towards the south for 7 m. Then he takes a left turn and walks for 8 m. Then he takes a left turn and walks for 4 m. Then he takes a left turn and walks for 2 m. Then he takes a right turn and walks for 3 m. At last, he takes left turn and walks for 2 m and stops at point B. Towards which direction should he walk in order to reach point A again? (All turns are 90-degree turns only unless specified.)

A. West



B. East

C. South

D. North

Q69

What should come in place of the question mark (?) in the given series based on the English alphabetical order?
MCZ RHE WMJ BRO ?

A. GWT



B. GER

C. GTW

D. GRD

Q70

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

A. 616

B. 148

C. 145

D. 154



Q71

If $a^2 + b^2 + c^2 + 189 = 6(a + 4b + 2c)$, then $\sqrt{ab + bc + ca}$ is equal to:

A. $3\sqrt{11}$

B. $2\sqrt{11}$

C. $3\sqrt{14}$



D. $2\sqrt{14}$

Q72

A student's marks were incorrectly entered as 44 instead of 92. Due to this, the average marks of the class got decreased by $\frac{4}{3}$. What is the number of students in the class?

A. 32

B. 36



C. 43

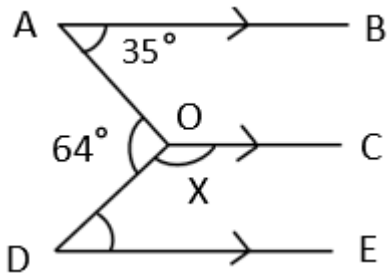
D. 41



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Q73

A. 209° B. 105° C. 151° D. 145°

Q74

It is given that, $\triangle ABC \sim \triangle EDF$ such that $AB = 5$ cm, $AC = 7.5$ cm, $DF = 15$ cm and $ED = 12.5$ cm. The sum of the remaining sides of the triangles is:

A. 24.75 cm

B. 20.25 cm

C. 23.25 cm

D. 22.25 cm

Q75

then what is the value of $\frac{3m - 16f}{3m + 16f}$?

A. 0

B. $\frac{233}{249}$ C. $\frac{253}{247}$ D. $\frac{253}{249}$ 

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Q1

100 bananas were bought at the rate of ₹1,200 per hundred and were sold at a profit of ₹1,100. Find the selling price (in ₹) per dozen bananas.

A. 281

B. 286

C. 271

D. 276



Q2

If the median and mode of a data of 20 numbers are 250 and 295, respectively, then find the sum of the 20 numbers.

A. 4550



B. 4005

C. 4500

D. 4050

Q3

An article is sold at a profit of 38%. If the cost price is increased by ₹68 and the selling price is reduced by ₹54, then the profit would be 37.5%. What is the original cost price (in ₹) of the article?

A. 29,700

B. 29,400

C. 29,300

D. 29,500



Q4

What is the mode of the following data?

70, 70, 73, 71, 74, 69, 80, 68, 66, 66, 89, 83, 81, 86, 82, 74, 86, 87, 67, 72, 62, 76, 86, 65, 62

A. 66

B. 86



C. 74

D. 70

Q5

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.)

A. PL - KG

B. MI - LP



C. KG - FB

D. OK - JF

Q6

Each letter in the word DUSTING is changed to the letter immediately following 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?

A. O

B. T



C. U

D. H

Q7

On a certain sum, if at the same rate of interest, in 2 years, the simple interest is ₹64 and the compound interest is ₹72, then what is the sum (in ₹)?

A. 128



B. 123

C. 121

D. 132

Q8

Each of A, C, I, M, O, Q and W has an exam on a different day of a week starting from Monday and ending on Sunday of the same week.

W has an exam on Friday. Exactly 3 people have exams between A and M, neither of whom has an exam on Sunday. Q has an exam immediately after I. O has an exam immediately before M. How many people have exams after Q?

A. 4

B. 3



C. 2

D. 1



Q9

Which of the following events happens when lysosomes in a cell burst?

A. Enzymes digest foreign particles only

B. Enzymes digest the cell's own components



C. Cell division increases

D. Cell becomes more active

Q10

A and B start a business by investing ₹93,000 and ₹54,000, respectively. B leaves the business after 3 months, and then C joins with an investment of ₹28,000 for the remaining period of the year. If 11% of the total profit is ₹61,336, what is B's share of the profit?

A. ₹59,040



B. ₹59,070

C. ₹58,951

D. ₹59,059

Q11

Refer to the given number, symbol series and answer the question that follows. Counting to be done from left to right only. (All numbers are single digit numbers only) (Left) 6 £ 2 @ % 7 8 # 1 3 * 9 \$ & 4 ^ < 5 (Right) How many such symbols are there each of which is immediately preceded by an odd number but not immediately followed by an even number?

A. One

B. None

C. Two



D. Three

Q12

A goods train and a superfast train started running from station A and station B, respectively, at the same time towards each other on parallel tracks. If the distance between station A and station B is 154 km and trains are running at speeds of 61 km/h and 93 km/h, respectively, then at how much distance (in km) from station B will the trains meet?

A. 93



B. 112

C. 86

D. 88

Q13

Refer to the following series and answer the question that follows. Counting to be done from left to right. All numbers are single-digit numbers only.

(Left) 1 3 5 7 5 5 7 4 5 8 9 5 4 4 5 5 4 5 7 7 6 5 7 6 (Right)

How many such odd digits are there, each of which is immediately preceded by an even digit and also immediately followed by an odd digit?

A. THREE

B. ONE

C. FOUR



D. FIVE

Q14

A, B, C, D, E, F and G are sitting around a circular table, facing the centre.

Only two people sit between D and G when counted from the right of D. Only two people sit between G and C. Only three people sit between D and B. E sits to the immediate left of A.

How many people sit between A and B when counted from the right of A?

A. 1



B. 2

C. 3

D. 4

Q15

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.)

A. YAC



B. JLO

C. PRU

D. NPS



Q16

Manan, Kiran, Aditi, Isha, Trisha and Arya 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 is numbered 6. Trisha lives immediately above Arya. Only one person lives between Arya and Aditi. Only two people live between Isha and Arya. Arya lives on an odd-numbered floor but not on the lowermost floor. Kiran lives immediately above Trisha. Who lives on floor number 2?

A. Kiran

B. Manan

C. Isha

D. Aditi

Q17

In a certain code language,
'S + T' means 'S is the father of T',
'S - T' means 'S is the brother of T',
'S x T' means 'S is the wife of T' and
'S ÷ T' means 'S is the sister of T'.
Based on the above, how is M related to Q if 'M - N ÷ O + P x Q'?

A. Wife's father's brother

B. Wife's mother's brother

C. Mother's brother

D. Father

Q18

Among five people named V, W, X, Y and Z, each have a certain age. The age of X is 12. V is four times the age of Z. Y is half the age of V. W is thrice the age of X. If Z is one ninth the age of W, what is the age of Y?

A. 6

B. 8

C. 10

D. 12

Q19

What should come in place of ? in the given series?

57 65 81 113 177 ?

A. 307

B. 306

C. 305

D. 304

Q20

Which of the following hormones is secreted by the pituitary gland?

A. Thyroxine

B. Growth hormone

C. Insulin

D. Adrenaline

Q21

Refer to the following letter series and answer the question that follows. Counting to be done from left to right only.
(Left) T S I C X Z O A K L N T E W A K O D F H A G U K
(Right)

How many such consonants are there, each of which is immediately preceded by a vowel and also immediately followed by a vowel?

A. One

B. Three

C. Two

D. None

Q22

A trader marked the price of an item 40% above the cost price. He allowed two successive discounts of 20% and 25% to a customer. If he incurred a loss of ₹224, at what price did he sell the item to that customer?

A. ₹1,276

B. ₹1,167

C. ₹1,166

D. ₹1,176

Q23

A shopkeeper fixes the marked price of an item 40% above its cost price. What percentage of discount should he offer to gain 26%?

A. 0.11%

B. 12%

C. 10%

D. 9%



Q24

Each letter in the word **PERSON** is changed to the second letter following it in the English alphabetical order, and then all the letters thus formed are arranged in the English alphabetical order. Which letter will be fifth from the right in the new group of letters formed?

A. T

B. E

C. P 

D. Q

Q25

A car travels x km at 40 km/hr, another x km at 60 km/hr and $2x$ km at 80 km/hr. Find the average speed for the whole journey.

A. 65 km/hr

B. 58 km/hr

C. 55 km/hr

D. 60 km/hr **Q26**

A question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and select the most appropriate answer.

Question:

Among 5 poles, I, L, O, M and D each having a different height, which pole is the tallest?

Statements:

(I) I is taller than M but shorter than D. I is shorter than only one pole.

(II) M is taller than L.

A. Data in both statements I and II together are not sufficient to answer the question.

B. Data in both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question.

C. Data in statement I alone is sufficient to answer the question while data in statement II is not. 

D. Data in statement II alone is sufficient to answer the question while data in statement I is not.

Q27

If 'A' stands for '+', 'B' stands for 'x', 'C' stands for '+' and 'D' stands for '-', what will come in place of the question mark (?) in the following equation?

$$13 \text{ A } 43 \text{ B } 43 \text{ C } 1 \text{ D } 43 = ?$$

A. -28

B. -31

C. -29 

D. -27

Q28

Which of the following is a type of 'urban local government' according to the Constitution of India?

A. Block Panchayat

B. Municipality 

C. Zila Panchayat

D. Gram Sabha

Q29

Refer to the following letter series and answer the question that follows. Counting to be done from left to right only. (Left) P Q W T A V A B T A X H L T O K W L X T S (Right) How many such vowels are there, each of which is immediately preceded by a consonant and also immediately followed by a vowel?

A. One

B. Three

C. Two

D. None **Q30**

A concave mirror is used in torches and car headlights because it:

A. Always forms virtual images

B. Scatters light in all directions

C. Reduces the brightness of light

D. Can produce a parallel beam of light 

Q31

Tanisha starts from Point A and drives 68 km towards east. He then takes a left turn, drives 45 km, turns left and drives 78 km. He then takes a left turn and drives 71 km. He takes a final left turn, drives 10 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)

A. 26 km to the north



B. 24 km to the north

C. 25 km to the north

D. 27 km to the south

Q32

What sum (in ₹) will earn an interest of ₹480 in 2 years at 8% simple interest per year?

A. 3200

B. 3150

C. 3000



D. 2800

Q33

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 to/subtracting from/multiplying with 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

3 – 9 – 81 – 66 ; 5 – 25 – 625 – 610

A. 9 – 81 – 6588 – 6573

B. 4 – 16 – 256 – 241



C. 2 – 4 – 16 – 21

D. 7 – 49 – 2150 – 2250

Q34

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

XJI PBA HTS ZLK ?

A. RDC



B. TDS

C. RCD

D. RED

Q35

H, P, R, A, S and M are sitting around a circular table facing the centre. R is sitting second to the right of P and to the immediate left of H. S is sitting second to the left of M and to the immediate right of A. Who is sitting to the immediate left of P?

A. M

B. H

C. S



D. A

Q36

In a certain code language, 'TRAP' is coded as '7486' and 'CART' is coded as '8274'. What is the code for 'C' in the given code language?

A. 7

B. 4

C. 8

D. 2

**Q37**

MXEL is related to OZHP in a certain way based on the English alphabetical order. In the same way, VRHB is related to XTKF. To which of the given options is QOJA related, following the same logic?

A. TQLF

B. SOME

C. TRLE

D. SQME



Q38

A force acts on a 4 kg body at rest and produces an acceleration of 3 m/s^2 . The final velocity after 5 seconds is:

A. 15 m/s



B. 20 m/s

C. 12 m/s

D. 10 m/s

Q39

In an election, there were four candidates, and they received 4500, 1260, 240 and 2000 votes, respectively. If all eligible voters voted, all votes polled were valid and were in favour of one of the four candidates, then the difference between the vote percentages of the winning candidate and the runner up candidate was:

A. 31.25%



B. 30.75%

C. 27.5%

D. 25%

Q40

This question is based on the following words:

FAT HOG NIP LUX

In each of the words, each vowel 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. In how many letter-clusters thus formed, will no vowel appear?

A. One

B. None

C. Two



D. Three

Q41

The ratio of prices of three gift articles is $2 : 5 : 8$. If the difference of the prices of the second and third articles is ₹5,055, then find the sum of the prices of three articles.

A. ₹31,500

B. ₹26,200

C. ₹25,275



D. ₹29,090

Q42

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

FPD : ENB

RUN : QSL

A. WHX : VEU

B. ALM : BNP

C. ZYB : YTZ

D. KFQ : JDO



Q43

What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$31 - 1 \times 2 \div 28 + 26 = ?$$

A. 19



B. 21

C. 17

D. 20

Q44

In this question, a question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and decide the appropriate answer.

Among the five poles—R, A, M, E, and N—each having a different height, which pole is the shortest?

(I) N is taller than only two poles. E is taller than N but shorter than M.

(II) R is taller than A.

A. Data in statement II alone is sufficient to answer the question while data in statement I is not

B. Both statements I and II together are NOT sufficient to answer the question

C. Data in statement I alone is sufficient to answer the question while data in statement II is not

D. Both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question



Q45

S, T, U, V, W, X and Y live on seven 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 is numbered 7. U lives on the fourth floor. Only two persons live between U and V. T lives immediately below V. W lives immediately above X but X does not live on the lowermost floor. S does not live on the lowermost floor. On which floor number does S live?

A. Floor Number 5



B. Floor Number 3

C. Floor Number 1

D. Floor Number 2

Q46

Puja starts from Point A and drives 31 km towards the south. He then takes a left turn, drives 40 km, turns left and drives 36 km. He then takes a left turn and drives 41 km. He takes a final left 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-degree turns only unless specified.)

A. 2 km to the east

B. 1 km to the east



C. 3 km to the North

D. 4 km to the South

Q47

Two sets of numbers are given below. In each set of numbers, a certain mathematical operation on the first number results in the second number. Similarly, certain mathematical operation 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 – A two/three digit number cannot be broken into individual digits for operations e.g. if 37 is followed by 10, the operation cannot be 3+7 as a two digit number cannot be broken into individual digits)

14 - 84 - 86 - 82

15 - 90 - 92 - 88

A. 37 - 298 - 299 - 287

B. 8 - 48 - 50 - 46



C. 22 - 90 - 100 - 99

D. 34 - 70 - 79 - 78

Q48

In a certain code language,
'A - B' means 'A is the daughter of B',
'A / B' means 'A is the son of B',
'A * B' means 'A is the wife of B' and
'A + B' means 'A is the husband of B'.
Based on the above, how is T related to Z if 'T / L + H - Z'?

A. Father

B. Daughter's daughter

C. Mother

D. Daughter's son

**Q49**

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

FVM ITK LRI OPG ?

A. RNE



B. RNF

C. SNE

D. SNT

Q50

When white light passes through a prism, different colours of light bend through different angles. Which colour bends the least and which bends the most?

A. Red bends the most, violet bends the least

B. Red bends the least, violet bends the most



C. Both red and violet bend equally

D. Blue bends the least, yellow bends the most

Q51

LPG (Liquefied Petroleum Gas) is stored in cylinders in liquid form because:

A. It is heated and expanded under low pressure

B. It is solidified before use

C. It reacts with air to form liquid

D. It is cooled and compressed under high pressure



Q52

A number is decreased by 18% and then increased by 22%. Find the net increase or decrease percentage (correct to two places of decimals).

- A. Decreased 1.2%
- B. Increased 1.2%
- C. Decreased 0.04%
- D. Increased 0.04%



Q53

What should come in place of the question mark (?) in the given series?

207 194 181 168 155 ?

- A. 147
- B. 145
- C. 142
- D. 140



Q54

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.)

- A. JBY
- B. OGD
- C. ASP
- D. RIF



Q55

The sum of the present ages of Bunty and Bubbly is 64 years. After 2 years from now, Bunty's age will be three times that of Bubbly's age. Bunty's present age (in years) is:

- A. 56
- B. 43
- C. 49
- D. 39



Q56

Which chamber of the heart sends deoxygenated blood to the lungs for oxygenation?

- A. Left ventricle
- B. Right atrium
- C. Left atrium
- D. Right ventricle



Q57

Each of G, J, M, O, R, S and T 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 exams before R. Only one person has an exam after M. Only three people have exams between R and T. Only one person has an exam between S and G. J has an exam immediately before S.

Who among the following has an exam on Friday?

- A. J
- B. G
- C. O
- D. M



Q58

If 2 is added to each odd digit and 1 is subtracted from each even digit in the number 2741586, how many digits will appear more than once in the new number thus formed?

- A. Three
- B. One
- C. None
- D. Two



Q59

EG 13 is related to FI 65 in a certain way. In the same way, JL 41 is related to KN 205. To which of the given options is RT 25 related, following the same logic?

- A. SU 135
- B. PU 145
- C. PV 135
- D. SV 125



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Q60

In a certain code language, 'TASH' is coded as '6348' and 'BAHT' is coded as '8653'. What is the code for 'B' in the given code language?

A. 5



B. 3

C. 8

D. 6

Q61

Exercise Varuna 2025 was conducted between India and which country?

A. Russia

B. USA

C. France



D. Japan

Q62

20 people can do a piece of work in 15 days. After 5 days, 5 people left. How many more days will it take to complete the work? (Rounded off to two decimal places)

A. 13.33 days



B. 14.15 days

C. 12.25 days

D. 10.5 days

Q63

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.)

(10, 5, 60)

(9, 6, 64)

A. (17, 5, 85)

B. (11, 6, 86)

C. (8, 9, 62)

D. (12, 4, 58)

**Q64**

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:

Some engineers are footballers.

All cricketers are footballers.

Conclusions:

(I) Some engineers are cricketers.

(II) All footballers are cricketers.

A. Neither conclusion (I) nor (II) follows



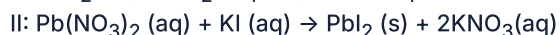
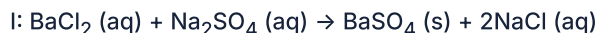
B. Only conclusion (II) follows

C. Only conclusion (I) follows

D. Both conclusions (I) and (II) follow

Q65

Consider the following chemical reactions:



Which of the following correctly classifies these reactions?

A. I: Double displacement reaction; II: Neutralisation reaction

B. I: Double displacement reaction; II: Displacement reaction

C. I: Displacement reaction; II: Double displacement reaction

D. Both are double displacement reactions

**Q66**

Which of the following ratios is the smallest?

A. 5 : 8

B. 7 : 10

C. 6 : 9

D. 4 : 7



Q67

The value of $9^2 + \sqrt{8^2} - 10\sqrt{49} - 20 =$

- A. -6
- B. -8
- C. 3
- D. -1



Q68

$\sec A \ 2\sec A \ 2\operatorname{cosec} A \ \operatorname{cosec} A$

- A. $\sec A$
- B. $2\sec A$
- C. $2\operatorname{cosec} A$
- D. $\operatorname{cosec} A$



Q69

A student's marks were incorrectly entered as 21 instead of 69. Due to this, the average marks of the class got decreased by $\frac{6}{5}$. What is the number of students in the class?

- A. 50
- B. 37
- C. 40
- D. 42



Q70

If volume of a sphere is numerically equal to the surface area of the sphere, then find the radius and surface area of the sphere. (Correct to 3 decimal places) $\left(\text{Use } \pi = \frac{22}{7}\right)$

- A. 2 unit and 113.143 unit²
- B. 3 unit and 112.143 unit²
- C. 3 unit and 113.143 unit²
- D. 3 unit and 131.143 unit²



Q71

Find the area of a regular hexagon whose side measures $18\sqrt{2}$ cm. (Use $\sqrt{3} = 1.73$)

- A. 1681.56 cm²
- B. 1671.56 cm²
- C. 1661.56 cm²
- D. 1691.56 cm²



Q72

A can complete a job in 10 days and B in 15 days. They started working together, but after 4 days, B fell sick and left. A continued and finished the remaining work. Later, it was found that A had also been working at only 80% efficiency throughout. How many total days did it take to complete the entire work?

A. $9\frac{5}{6}$

B. $8\frac{1}{5}$

C. $9\frac{1}{6}$



D. $5\frac{1}{6}$

Q73

The volume of a solid cylinder is $5,236 \text{ cm}^3$ and its height is 34 cm. What is the total surface area of the solid cylinder?

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

A. 1804 cm²



B. 1831 cm²

C. 1841 cm²

D. 1823 cm²

Q74

Find the simplified value of the following expression:

$(\frac{8.4}{0.7} + \frac{2.4}{4}) \div (\frac{9.6}{8} - \frac{3}{5})$

A. 21



B. 30

C. 2.4

D. 2.1



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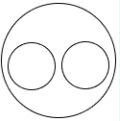
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Q75

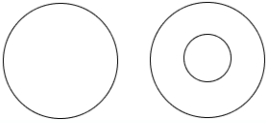
Select the Venn diagram that best illustrates the relationship between the following classes.

Headgears, Helmets, Caps

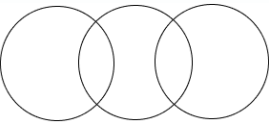
A.



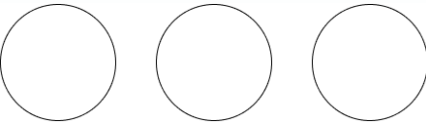
B.



C.



D.



Q1

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

(Left) A & # W Z € % © H M O # \$ U £ F * H D € © H (Right)
How many such symbol are there, each of which is immediately preceded by a letter and also immediately followed by a letter?

A. 4

B. 1

C. 2



D. 3

Q2

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.)

A. MJ - LI

B. TQ - KO



C. VS - UR

D. PM - OL

Q3

A man buys a watch for ₹1,500. He sells it to his friend at a profit of 12% on his cost price. The friend then sells it to another person at a profit of 8% on his own cost price. What is the difference between the original cost price and the final selling price?

A. ₹318.40

B. ₹312.40

C. ₹314.40



D. ₹316.40

Q4

Which of the following correctly describes lymph?

A. Fluid containing more proteins than blood plasma

B. Fluid that flows only inside arteries

C. Similar to plasma but colourless and low in proteins



D. Coloured fluid rich in red blood cells

Q5

Each of N, K, J, R, P, S and M has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. M has an exam on Wednesday. N has exam on the day immediately after S. Only 2 people have exams between P and R. K has exam on the day immediately before M. R's exam is neither on Sunday nor on Monday. J has exam on the day immediately before S. Who among the following has exam on Monday?

A. J

B. M

C. K

D. P



Q6

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

WDX14, CKD27, IRJ40, OYP53, ?

A. UFV66



B. UPV66

C. FFV66

D. UFO66

Q7

Among five people named V, W, X, Y and Z, each have a certain age. X is twice the age of V. V is three times the age of Y. Y is one-fifth the age of W. The age of W is 15. If Z's age is equal the age of X, what is the age of Z?

A. 16

B. 20

C. 18



D. 22

Q8

What should come in place of ? in the given series?

58 59 61 65 73 ?

A. 88

B. 86

C. 87

D. 89



Q9

S, T, U, V, W, X and Y live on seven 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 is numbered 7. V lives on second floor. Only two persons live between V and U. X lives immediately below U. S lives immediately above T. Y does not live on the lowermost floor. On which floor number does Y live?

- A. Floor number 7
- B. Floor number 4
- C. Floor number 3
- D. Floor number 6

Q10

When the one-third of a number is increased by 83, the result is 97. Find the sum of the digits of the original number.

- A. 8
- B. 7
- C. 6
- D. 4

Q11

Which of the following officially determines the constitutional validity of any legislation?

- A. The Union Cabinet through executive interpretation
- B. The President of India through constitutional discretion
- C. The Parliament of India through a special resolution
- D. The Supreme Court of India through judicial review

Q12

What should come in place of the question mark (?) in the given series?
108 103 97 90 82 73 ?

- A. 67
- B. 63
- C. 61
- D. 65

Q13

Each vowel in the word WICKED 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 new group of letters thus formed?

- A. 0
- B. 3
- C. 2
- D. 1

Q14

What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$6 \times 45 \div 15 + 8 - 13 = ?$$

- A. 8
- B. 5
- C. 7
- D. 6

Q15

Seven people, J, K, L, M, N, O and P, are sitting around a circular table facing the centre. J sits third to the right of M and second to the left of N. K is an immediate neighbour of both M and N. O is second to the left of P. How many people sit between M and P when counted from the left of M?

- A. One
- B. None
- C. Three
- D. Two

Q16

Why does the palm feel cool when acetone is poured on it?

- A. Particles absorb energy from the palm and evaporate.
- B. Particles release energy to the palm and condense.
- C. Particles remain still and reflect the surrounding heat.
- D. Particles expand and trap air between skin layers.



Q17

A question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and decide the appropriate answer.

Q. Four students – Ankita, Bhavna, Chitra, and Deepa – scored different marks.

Who scored the highest marks?

(I) Bhavna scored more than Ankita but less than Chitra.

(II) Deepa scored more than Bhavna but less than Chitra.

- A. Data in both statements I and II together are NOT sufficient to answer the question
- B. Data in Statement I alone is sufficient to answer the question while data in Statement II is not
- C. Data in Statement II alone is sufficient to answer the question while data in Statement I is not
- D. Data in both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question

Q18

In a certain code language, 'HASP' is coded as '8294' and 'ASHY' is coded as '2879'. What is the code for 'Y' in the given code language?

- A. 9
- B. 7
- C. 8
- D. 2

Q19

This question is based on the following words:

PAN BIT SOG RUB

In each of the words, each vowel 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. In how many letter-clusters thus formed, will no vowel appear?

- A. Three
- B. Two
- C. One
- D. None

Q20

Tarun and Varun start a business by investing ₹12,000 and ₹72,000, respectively. Tarun invests his money for 4 months and Varun for 10 months. At the end of the year, 20% of the total profit is ₹16,800. What is Varun's share of the profit (in ₹)?

- A. 78,750
- B. 76,350
- C. 76,550
- D. 78,250

Q21

A, G, H, P, S and Y 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.

Only two people live between Y and H. Only two people live between G and S. No one lives above G. H lives below S but above P.

How many people live below A?

- A. Four
- B. One
- C. Three
- D. Two

Q22

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.)

- A. QTV
- B. MPR
- C. FIL
- D. SVX

Q23

Which of the following hybridisation crossing is NOT used for the improvement in crop varieties?

- A. Intraspecific
- B. Interspecific
- C. Intervarietal
- D. Intergeneric



Q24

What sum (in ₹) will earn an interest of ₹480 in 2 years at 16% simple interest per year?

A. 1650

B. 1500



C. 1300

D. 1700

Q25

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

(Left) * M © U Q £ Q £ @ © V € H B \$ W © I Q # U X (Right)

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

A. 3



B. 2

C. 4

D. 5

Q26

In a certain code language,

'A + B' means 'A is the father of B',

'A - B' means 'A is the mother of B',

'A * B' means 'A is the sister of B' and

'A / B' means 'A is the brother of B'.

Based on the above, how is L related to N if 'P + L / R - N'?

A. Mother's brother



B. Mother's father

C. Husband

D. Brother

Q27

Which of the following is correct regarding the quantity of stain retained by the cytoplasm in a temporary mount of onion peel?

A. No stain

B. Very little stained



C. Very high stained

D. Medium stained

Q28

If 'A' stands for '÷', 'B' stands for 'x', 'C' stands for '+' and 'D' stands for '-', what will come in place of the question mark (?) in the following equation?

$$79 \text{ D } 12 \text{ B } 4 \text{ C } 100 \text{ A } 5 = ?$$

A. 55

B. 53

C. 50

D. 51

**Q29**

Simplify: $125 \div 25 \times 6 + 12 - 9$

A. 36

B. 23

C. 28

D. 33

**Q30**

A car falls off a ledge and drops to the ground in 0.8 s. Take $g = 10 \text{ m/s}^2$ (for simplifying the calculations). How high is the ledge from the ground?

A. 6.4 m

B. 3.2 m



C. 4.0 m

D. 2.0 m

Q31

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

PTC KOX FJS AEN ?

A. VSZ

B. VZS

C. VIZ

D. VZI



Q32

Refer to the following letter series and answer the question that follows. Counting to be done from left to right only.

(Left) K S U L H A A E G H L A J Z X G U P E U P H (Right)

How many such consonants are there, each of which is immediately preceded by a vowel and also immediately followed by a vowel?

A. 4

B. 1

C. 2

D. 3

Q33

No matter where an object is placed in front of it, a concave lens always forms an image that is:

A. Real, inverted, and enlarged

B. Real, erect, and same size

C. Virtual, inverted, and enlarged

D. Virtual, erect, and diminished

Q34

5% of a number is what percentage of 5% of the same number?

A. 110%

B. 50%

C. 25%

D. 100%

Q35

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.)

A. GK - FJ

B. LP - KO

C. RU - QV

D. UY - TX

Q36

A is the brother of B. B is the son of C. M is married to B. Q is the only daughter of M. C is the sister of D. How is A related to C?

A. Daughter

B. Brother

C. Father

D. Son

Q37

Daniel starts from Point A and drives 23 km towards South. He then takes a left turn, drives 14 km, turns left and drives 27 km. He then takes a left turn and drives 23 km. He takes a final left 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.)

A. 10 km to the west

B. 9 km to the west

C. 10 km to the east

D. 9 km to the east

Q38

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.)

(4, 8, 36)

(3, 3, 18)

A. (6, 3, 28)

B. (5, 2, 21)

C. (15, 1, 32)

D. (11, 5, 49)

Q39

Find the curved surface area (in cm^2) of a hemisphere of radius 125 cm.

A. 31255π

B. 31241π

C. 31250π

D. 31244π



Q40

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:

Some doctors are eagles.
No snakes are doctors.

Conclusions:

- (I) Some eagles are not snakes.
(II) All eagles are doctors.

A. Only conclusion (I) follows.

B. Only conclusion (II) follows.

C. Neither conclusion (I) nor (II) follows.

D. Both conclusions (I) and (II) follow.

Q41

A shopkeeper marks an article 30% above its cost price. He then allows a discount of 20% on the marked price and still makes a profit of ₹32. Find the cost price of the article.

A. 800

B. 680

C. 700

D. 720

Q42

Which Act does the Digital Personal Data Protection Rules, 2025, facilitate the implementation of?

A. Data Protection Act, 2023

B. Digital Personal Data Protection Act, 2023

C. Information Technology and Cybersecurity Act, 2023

D. Digital Privacy Act, 2023

Q43

Lenses in spectacles help correct vision defects due to:

A. Refraction of light through lenses

B. Dispersion of light

C. Scattering of light

D. Reflection from mirrors

Q44

In a certain code language, 'BREW' is coded as '8135' and 'WEAR' is coded as '3915'. What is the code for 'A' in the given code language?

A. 1

B. 3

C. 5

D. 9

Q45

The speed of a boat in still water is 8 km/hr. It can go 12 km upstream and 18 km downstream in 4 hours. Find the speed of the stream. (Rounded off up to two decimal places)

A. 3.12 km/hr

B. 1.85 km/hr

C. 2.89 km/hr

D. 3.56 km/hr

Q46

Shivam distributed ₹23400 between his two grandsons 14-year-old Rupesh and 15-year-old Mandar such that they get equal money when they turn 23 years old. Till then the money is in a bank getting compound interest at 8% per annum, compounded annually. How much (in ₹) Shivam deposited in the name of Mandar?

A. 12500

B. 12150

C. 11250

D. 11000

Q47

Below are given two sets of numbers. In each set of numbers, a certain mathematical operation on the first number results in the second number. Similarly, certain mathematical operation 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 – A two/three digit number cannot be broken into individual digits for operations e.g. if 37 is followed by 10, the operation cannot be 3+7 as a two digit number cannot be broken into individual digits)

2 - 10 - 20 - 25 ; 1 - 5 - 10 - 15

A. 5 - 25 - 50 - 60

B. 3 - 15 - 20 - 40

C. 4 - 20 - 40 - 45

D. 9 - 45 - 90 - 105



Q48

Select the pair which follows the same pattern as that followed by the two set of pairs given below. Both pairs follow the same pattern.

NLOR : RHKN
IQCS : MMYO

- A. KPNT : OLJQ
- B. JPZK : NLVG
- C. XEPM : CALI
- D. WDHY : AZEU

Q49

Pipe A can fill a tank three times as fast as another pipe B. If the two pipes working together can fill the tank in 36 minutes, then in what time will the slower pipe alone fill the tank?

- A. 144 minutes
- B. 108 minutes
- C. 150 minutes
- D. 82 minutes

Q50

Three persons Amar, Akbar and Sunil start a business with the investments ₹15,600, ₹ 10,400 and ₹ 11,700, respectively. They got 20% of the total investment as profit and they planned to reinvest 5% of the profit. If the remaining profit is distributed in the ratio of their investments, then find the share of Sunil in the profit.

- A. ₹4,225
- B. ₹2,845
- C. ₹2,223
- D. ₹3,247

Q51

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

KFM : GCR
RMS : NJX

- A. ORG : KNL
- B. PST : KNY
- C. MSU : IPZ
- D. HOP : DJU

Q52

An article is sold at a profit of 40%. If the cost price is increased by ₹28 and the selling price is reduced by ₹84, then the profit would be 37.5%. What is the original cost price (in ₹) of the article?

- A. 5,000
- B. 4,900
- C. 4,700
- D. 4,800

Q53

A question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and select the most appropriate answer.

Question:

Among 5 poles, I, L, O, M and D each having a different height, which pole is the tallest?

Statements:

- (I) I is shorter than L but taller than O.
- (II) O is taller than M but shorter than D.

- A. Data in statement II alone is sufficient to answer the question while data in statement I is not.
- B. Data in statement I alone is sufficient to answer the question while data in statement II is not.
- C. Data in both statements I and II together are not sufficient to answer the question.
- D. Data in both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question.

Q54

Each of Abhi, Bhanu, Chetu, Devansh, Ekansh, Falak and Gyanu play a game on a different day of a week starting from Monday and ending on Sunday of the same week. Chetu plays the game on Friday. Ekansh plays immediately after Bhanu and Bhanu plays immediately after Devansh. Devansh does not play on Monday. Gyanu plays immediate before Falak. On which day does Abhi play the game?

- A. Sunday
- B. Thursday
- C. Monday
- D. Wednesday



Q55

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

(Left) 452 852 674 528 429 (Right)

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

What will be the resultant if the second digit of the highest number is added to the second digit of the lowest number?

A. 8

B. 6

C. 5

D. 7

**Q56**

If 'P' stands for '×', 'Q' stands for '÷', 'R' stands for '–' and 'S' stands for '+', then what will come in place of the question mark (?) in the following equation?

$$13 P 7 R (45 Q 5) P 2 = ?$$

A. 82

B. 73

C. 49

D. 34

**Q57**

A shopkeeper fixes the marked price of an item 56% above its cost price. What percentage of discount should he offer to gain 17%?

A. 26%

B. 24%

C. 25%

D. 22%

**Q58**

What is the mode of the following data?

78, 60, 85, 76, 84, 86, 73, 89, 78, 77, 60, 63, 62, 72, 61, 78, 67, 77, 61, 78, 75, 61, 88, 66, 69

A. 77

B. 60

C. 61

D. 78

**Q59**

In the following number-pairs, the second number is obtained by applying certain mathematical operation(s) to the first number. Which numbers should replace X and Y, so that the pattern followed by the two numbers on the left side of :: is the same as that on the right side of ::?

(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 to/subtracting from/multiplying with 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

$$X : 24 :: 13 : Y$$

A. X = 12, Y = 26

B. X = 7, Y = 130

C. X = 8, Y = 130

D. X = 8, Y = 36

**Q60**

Which of the following correctly describes the effect of consuming ethanol?

A. Small amounts of absolute alcohol are safe, but diluted ethanol is always fatal

B. Absolute alcohol in any amount causes minor intoxication without severe effects

C. Long-term consumption of diluted ethanol has no health impact on humans

D. Small amounts of dilute ethanol cause drunkenness, whereas absolute alcohol can be lethal

**Q61**

The population of a town increased by 25% in the first year, then decreased by 20% in the second year and again increased by 10% in the third year. If the initial population was 50,000; find the population after 3 years.

A. 57,000

B. 58,500

C. 55,000

D. 56,500



Q62

A rider travels 60 km at a speed of 30 km/h, then travels another 40 km at a speed of 20 km/h, and finally covers 50 km at 25 km/h. What is the average speed (in km/h) of the rider for the entire journey?

A. 26

B. 25



C. 21

D. 22

Q63

Seven people, A, B, C, D, E, F and G, are sitting in a row, facing north. Only F sits to the left of E. Only four people sit between F and G. Only B sits between D and A, and D is not an immediate neighbour of G. How many people live between C and D?

A. 1

B. 3



C. 4

D. 2

Q64

Refer to the following letter series and answer the question that follows. Counting to be done from left to right only. (Left) N E F M L C L T X X R X D G J A M Q F T Q (Right) How many such consonants are there, each of which is immediately preceded by a consonant and also immediately followed by a vowel?

A. Three

B. None

C. Two

D. One



Q68

24222620

A. 24



B. 22

C. 26

D. 20

Q65

Find the mean proportional between 49 and 64.

A. 51

B. 54

C. 52

D. 56



Q66

Swara starts from point P and walks for 8 m towards the north. Then she takes a right turn and walks for 5 m. Then, again, she takes a right turn and walks for 4 m. One more time she takes a right turn and walks for 10 m. Then she takes a left turn and walks for 4 m before stopping at point Q. Towards which direction should she walk in order to reach Point P again? (All turns are 90-degree turns only unless specified.)

A. West

B. South

C. East



D. North

Q67

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 which follows the same logic.

NOSE - ENOS - SENO

HAND - DHAN - NDHA

A. TREK - KRTE - ETKR

B. TREK - KTRE - ETKR

C. TREK - KTRE - EKTR



D. TREK - KRTE - EKTR



Q69

Triangle ABC is right angled at B. BD is an altitude on AC. If AD = 5 cm and DC = 9 cm, what is the length (in cm) of BD?

A. $4\sqrt{5}$

B. $3\sqrt{5}$



C. $\sqrt{5}$

D. $2\sqrt{5}$

Q70

From a point within an equilateral triangle, perpendicular lines are drawn to its sides. The lengths of these perpendiculars are 5 m, 6 m, and 7 m. Find the area of the triangle.

A. $105\sqrt{3}$ sq.m

B. 75 sq.m

C. 98 sq.m

D. $108\sqrt{3}$ sq.m



Q71

A student's marks were incorrectly entered as 35 instead of 99. Due to this, the average marks of the class got decreased by $\frac{8}{3}$. What is the number of students in the class?

A. 34

B. 33

C. 28

D. 24



Q72

The simplified value of $\left(\frac{\sqrt[3]{4913}}{\sqrt[4]{1296}}\right) \times \frac{3}{51} \times 168$ is

A. 26

B. 28



C. 30

D. 38



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Q73

A can complete a task in 15 days, and B can complete the same task in 20 days. If both work together, how long will it take them to finish the task?

A. $4\frac{3}{7}$ days

B. $7\frac{4}{7}$ days

C. $5\frac{3}{7}$ days

D. $8\frac{4}{7}$ days



Q74

The median of $\frac{3}{7}$, $\frac{3}{5}$, $\frac{11}{13}$, $\frac{14}{16}$ and $\frac{17}{19}$ is ____.

A. $\frac{11}{13}$

B. $\frac{14}{16}$

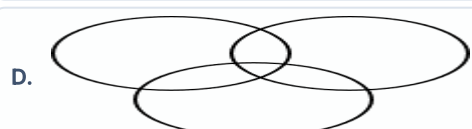
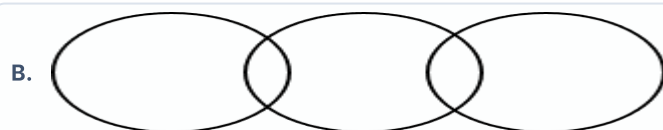
C. $\frac{17}{19}$

D. $\frac{3}{5}$



Q75

Select the Venn diagram that best illustrates the relationship between the following classes.
Carrot, Apples, Lime



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Q1

A shopkeeper bought six identical mobile phones for ₹ 72000, and sold two of them for ₹ 72000. Find his gain percentage.

- A. 1.97%
- B. 200%
- C. 201%
- D. 203%



Q2

What sum (in ₹) will earn an interest of ₹460 in 4 years at 5% simple interest per year?

- A. 2100
- B. 2500
- C. 2450
- D. 2300



Q3

Find the mean proportional between 36 and 81.

- A. 48
- B. 45
- C. 52
- D. 54



Q4

If 'P' stands for '×', 'Q' stands for '÷', 'R' stands for '-' and 'S' stands for '+', then what will come in place of the question mark (?) in the following equation?

(60 Q 4) P 6 R 10 P 3 = ?

- A. 40
- B. 60
- C. 45
- D. 80



Q5

A metal object exposed to a humid environment starts corroding. Which of the following methods would be the most effective and long-lasting in preventing corrosion?

- A. Wrapping the metal with a dry cloth to prevent moisture exposure
- B. Periodically wiping the surface with oil
- C. Coating with a more reactive metal like zinc
- D. Applying a single coat of paint



Q6

Three partners, Alex, Ben, and Chris, invest in a startup. Alex invests ₹30,000, Ben invests ₹45,000, and Chris invests ₹60,000. After one year, the profit is ₹27,000. What is Alex's share in the profit?

- A. ₹5,800
- B. ₹5,200
- C. ₹6,000
- D. ₹5,000



Q7

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

KEV CWN UOF MGX ?

- A. EPY
- B. ERT
- C. EDS
- D. EYP



Q8

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

TKB ULG VML WNQ ?

- A. YOX
- B. XOY
- C. XQW
- D. YQW



Q9

Seven people, J, K, L, M, N, O and P, are sitting in a row, facing north. Only three people sit to the right of J. Only two people sit to the left of P. K sits third to the right of J. M sits to the immediate left of P. Only three people sit between L and O. O does not sit to the immediate left of M. Who sits to the immediate left of P?

A. K

B. J

C. M



D. O

Q10

The sum of the present ages of Kamlesh and Prathmesh is 52 years. After 2 years from now, Kamlesh's age will be three times that of Prathmesh's age. Kamlesh's present age (in years) is:

A. 40



B. 36

C. 32

D. 34

Q11

What property of gases allows them to fill any container completely?

A. Particles occupy definite volume and definite shape.

B. Particles move freely and have negligible attraction.



C. Particles remain fixed and cannot move easily.

D. Particles form strong bonds with container walls.

Q12

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.)

A. DIO

B. MRY



C. QVB

D. JOU

Q13

In this question, a question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and decide the appropriate answer.

Among the five poles—I, N, C, H, and L—each having a different height, which pole is the shortest?

(I) C is taller than only two poles. I is shorter than C and N is shorter than I.

(II) H is taller than L.

A. Data in statement II alone is sufficient to answer the question while data in statement I is not

B. Data in statement I alone is sufficient to answer the question while data in statement II is not



C. Both statements I and II together are NOT sufficient to answer the question

D. Both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question

Q14

DM3 is related to LU27 in a certain way. In the same way, AR12 is related to IZ1728. To which of the given options is DK13 related, following the same logic?

A. LR507

B. LS2197



C. MR169

D. MS1019

Q15

The Attorney General of India is the highest law officer of the country appointed by whom?

A. The Chief Justice of India

B. The seniormost Judge of Supreme Court

C. The President of India



D. The Prime Minister of India

Q16

On a certain sum, if at the same rate of interest, in 2 years, the simple interest is ₹64 and the compound interest is ₹80, then what is the sum (in ₹)?

A. 64



B. 68

C. 57

D. 59



Q17

41 is related to 165 following a certain logic. Following the same logic, 18 is related to 73. To which of the given options is 122 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.)

A. 487

B. 495

C. 492

D. 489



Q18

Refer to the following number and symbol series and answer the question that follows. (All numbers are single-digit numbers only.)

(Left) $3^5 \# 6 \text{ £ } 1 \$ @ 8 \% 7 * 4 < \Omega 9 2$ (Right)

If all the symbols are dropped from the series, which of the following will be fifth from the left?

A. 4

B. 7

C. 1

D. 8



Q19

The price of an article was ₹1700. It increased by 5% in the first year and by 20% in the second year. What is the price (in ₹) of the article after two years?

A. 2125

B. 2040

C. 1885

D. 2142



Q20

Karan and Arjun start a business by investing ₹45,000 and ₹50,000, respectively. Karan invests his money for 4 months and Arjun for 10 months. At the end of the year, 20% of the total profit is ₹30,600. What is Arjun's share of the profit (in ₹)?

A. 1,12,350

B. 1,12,500



C. 1,14,250

D. 1,14,600

Q21

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.)

A. IJ-KL

B. MN-OP

C. EF-GH

D. AB-CA



Q22

A car falls off a ledge and drops to the ground in 0.6 s. Take $g = 10 \text{ m/s}^2$. What is the car's speed on striking the ground?

A. 12 m/s

B. 6 m/s



C. 10 m/s

D. 3 m/s

Q23

What should come in place of the question mark (?) in the given series?

192 185 198 191 204 197 210 ?

A. 203



B. 201

C. 206

D. 205

Q24

8 men can complete a job in 20 days. 8 women can complete the same job in 32 days. In how many days will 5 men and 8 women together complete the same job?

A. 18 days

B. 16 days



C. 22 days

D. 20 days

Q25

In a certain code language, 'HALT' is coded as '6928' and 'GHAT' is coded as '4862'. What is the code for 'G' in the given code language?

A. 2

B. 6

C. 4



D. 8



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Q26

Refer to the following letter series and answer the question that follows. Counting to be done from left to right only.

(Left) Y D A U L K E I C B A O O A N M I Q F U E L (Right)

How many such consonants are there, each of which is immediately preceded by a consonant and also immediately followed by a vowel?

A. 8

B. 5



C. 7

D. 4

Q27

A number of 512 identical small spheres are cast from a sphere of radius 40 cm, with the total volume of the small spheres being equal to the volume of the larger sphere. The diameter (in cm) of each of the small spheres is:

A. 10



B. 14

C. 6

D. 15

Q28

Rajan starts from Point A and drives 51 km towards east. He then takes a right turn, drives 56 km, turns right and drives 56 km. He then takes a right turn and drives 63 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)

A. 8 km to the south

B. 10 km to the north

C. 7 km to the south



D. 9 km to the north

Q29

Each vowel in the word PRINTED 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. Which of the following letters will be third from the left in the new group of letters thus formed?

A. F

B. S

C. J



D. M

Q30

Refer to the following letter series and answer the question that follows. Counting to be done from left to right only.

(Left) U N M K L P E C S X D F Y U M U T E W X Z S E Q A Z S I O P L M J (Right)

How many such consonants are there that are immediately preceded by a vowel and immediately followed by a consonant?

A. 5



B. 3

C. 4

D. 6

Q31

Refer to the following letter series and answer the question that follows. Counting to be done from left to right only.

(Left) B V J W N U Y N G N R O N R K C G N J W A (Right)

How many such vowels are there, each of which is immediately preceded by a consonant and also immediately followed by a vowel?

A. None



B. One

C. Two

D. Three

Q32

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

GPI : IMK

NQJ : PNL

A. CZS : EWU



B. AVU : CRW

C. SRL : UOM

D. KKE : MHF



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Q33

What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$18 - 36 \div 10 \times 20 + 34 = ?$$

A. 3

B. 2 

C. 4

D. 0

Q34

The apparent random wavering or flickering of objects seen through a turbulent stream of hot air rising above a fire or a radiator is due to:

A. Reflection of light

B. Dispersion of light

C. Atmospheric refraction of light 

D. Diffraction of light

Q35

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.)

A. HL-JN

B. NR-OV 

C. MQ-OS

D. TX-VZ

Q36

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:

Some Indians are Americans.

Some Americans are Russians.

Conclusions:

(I) No Russian is an American.

(II) All Indians are Russians.

A. Both conclusions (I) and (II) follow.

B. Only conclusion (II) follows.

C. Only conclusion (I) follows.

D. Neither conclusion (I) nor (II) follows. **Q37**

Refer to the following series and answer the question that follows. Counting to be done from left to right. All numbers are single-digit numbers only.

(Left) 3 5 6 3 4 6 4 3 1 5 7 6 8 6 3 1 3 6 7 8 9 7 5 (Right)

How many such odd digits are there, each of which is immediately preceded by an even digit and also immediately followed by an odd digit?

A. NONE

B. FOUR

C. THREE 

D. TWO

Q38

The distances between the points A, B and C are such that AB = 180 km and BC = 240 km. A traveler goes from A to B at 45 km/h, from B to C at 60 km/h, returns from C to B at 40 km/h, and finally from B to A at 30 km/h. Find the average speed (in km/h) for the entire journey.

A. 45

B. 41

C. 42 

D. 51

Q39

A shopkeeper sells an item for ₹689.7 after giving two successive discounts of 75% and 34% on its marked price. Had he not given any discount, he would have earned a profit of 76%. What is the cost price (in ₹) of the item?

A. 2,375 

B. 2,333

C. 2,359

D. 2,397

Q40

4% of a number is approximately what percentage of 18% of the same number?

A. 450%

B. 18.18%

C. 9.09%

D. 22.22% 

Q41

A question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and select the most appropriate answer.

Question:

Among 5 poles, I, L, O, M and D each having a different height, which pole is the tallest?

Statements:

(I) I is taller than only two poles. L is taller than D and no pole has height between L and D.

(II) M is taller than D.

A. Data in both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question.

B. Data in both statements I and II together are not sufficient to answer the question.

C. Data in statement II alone is sufficient to answer the question while data in statement I is not.

D. Data in statement I alone is sufficient to answer the question while data in statement II is not.

Q42

A trader marks a product at ₹2,000. He offers two successive discounts of 20% and 10% to a customer. Find the single equivalent discount percentage and the selling price of the product.

A. 25%, ₹1,540

B. 20%, ₹1,640

C. 28%, ₹1,440

D. 30%, ₹1,740

Q43

Refer to the following number, symbol series and answer the question. Counting to be done from left to right only. All numbers are single-digit numbers.

(Left) @ 8 1 < 2 + + > 6 # \ * 7 & + * * 3 3 \$ 2 (Right)

How many such numbers are there each of which is immediately preceded by a symbol and also immediately followed by a symbol?

A. None

B. Two

C. Three

D. One

Q44

Thicker muscular walls are present in the ventricles of the heart due to which of the following reasons?

A. To store blood before it enters the atria

B. To pump blood with high pressure

C. To control heartbeat and rhythm

D. To receive blood from the body and lungs

Q45

Each of T, R, O, U, B, L and E has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. Only three people have exam between L and T. Only three people have exam between U and O. B has exam on some day before E and on some day after R. Only O has exam after T. How many people have exam after B?

A. One

B. Three

C. Two

D. Four

Q46

DTWM is related to IXZO in a certain way based on the English alphabetic order. In the same way, KRHF is related to PVKH. To which of the given options is SLCO related, following the same logic?

A. XPFQ

B. XPFR

C. YPFR

D. YOFR

Q47

Which award, one of India's highest honours in the livestock and dairy sector, was announced in November 2025?

A. Rajyotsava Awards

B. National Gopal Ratna Awards

C. CII Quality Ratna Award

D. Padma Shri



Q48

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

A. None

B. Two



C. Three

D. One

Q49

Seven boxes, M, N, O, P, Q, R and S, are kept one over the other but not necessarily in the same order. O is kept third from the top. Only two boxes are kept between O and Q. P is kept immediately above Q. M is kept immediately below R. N is not kept at the lowermost position. Which box is fourth from the bottom?

A. Q

B. N



C. M

D. P

Q50

A, B, C, D, E, F and G live on seven 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 is numbered 7. Only one person lives above C. Only two persons live between G and C. Only one person lives between D and G, but D does not live on the lowermost floor. F lives immediately below E. Only two persons live between F and B. On which floor number does B live?

A. Floor number 2

B. Floor number 3

C. Floor number 5

D. Floor number 4



Q51

Among five people named V, W, X, Y and Z, each have a certain age. X is thrice the age of V. The age of V is 12. Y is half the age of Z. W is twice the age of Y. If Z's age is equal to the age of X, what is the age of W?

A. 36



B. 42

C. 54

D. 35

Q52

In a certain code language, 'CROW' is coded as '2916' and 'WORK' is coded as '6152'. What is the code for 'K' in the given code language?

A. 1

B. 5



C. 2

D. 6

Q53

If $2^a = 32$, $b^4 = 81$, and $b > 0$, then what is the value of a^b ?

A. 125



B. 216

C. 27

D. 64

Q54

In two triangles, $\triangle ABC \sim \triangle PQR$, $AB=12\text{cm}$ and $PQ=4\text{cm}$, if AL and PM are altitudes of the respected triangles, then what will be AL:PM?

A. 1:3

B. 3:1



C. 2:3

D. 2:1

Q55

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'.

Based on the above, how is D related to R if 'D # M + S @ P - R'?

A. Father's brother's wife

B. Brother's daughter

C. Father's daughter

D. Father's brother's daughter



Q56

Each of A, B, C, D, E, F and G play a game on a different day of a week starting from Monday and ending on Sunday of the same week. C plays the game on Friday. Only one person plays between C and B but B does not play on the last day. A plays immediately before D but D does not play on the last day. F plays immediately after G. On which day does E play the game?

- A. Sunday
- B. Saturday
- C. Tuesday
- D. Thursday**

**Q57**

Among the following, which structure is cup shaped at one end of coiled tube in kidney?

- A. Collecting duct
- B. Loop of Henley
- C. Bowman's capsule**
- D. Glomerulus

**Q58**

In a certain code language,
'A + B' means 'A is the wife 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 brother of B'.
Based on the above, how is W related to E if 'W - Q * F * E'?

- A. Mother
- B. Father's brother
- C. Father's sister**
- D. Daughter

**Q59**

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 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.)

14 - 26
32 - 44

- A. 56 - 69
- B. 40 - 54
- C. 70 - 83
- D. 29 - 41**

**Q60**

A trader mixes two varieties of rice, A and B, in the ratio 3 : 5 by weight. He sells the mixture at a price such that he gains 20% on rice A and incurs a loss of 10% on rice B. If the overall profit on the mixture is 8%, find the ratio of the cost prices per kg of rice A to rice B.

- A. 3:4
- B. 2:5
- C. 5:2**
- D. 4:3

**Q61**

If 'A' stands for '÷', 'B' stands for 'x', 'C' stands for '+' and 'D' stands for '-'; what will come in place of the question mark (?) in the following equation?

75 C 112 A 7 B 4 D 40 = ?

- A. 98
- B. 99**
- C. 97
- D. 94



Q62

What should come in place of ? in the given series?

56 68 87 113 146 ?

A. 187

B. 186



C. 188

D. 185

Q63

Since the mass of the Moon is less than that of the Earth, what can be said about the weight of an object on the Moon compared to its weight on Earth?

A. Less on the Moon



B. Same on both

C. Greater on the Moon

D. Zero on the Moon

Q64

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 farmers are graduates.

All graduates are employees.

Conclusions:

(I) Some employees are graduates.

(II) All farmers are employees.

A. Only conclusion (II) follows

B. Neither conclusion (I) nor (II) follows

C. Only conclusion (I) follows

D. Both conclusions (I) and (II) follow

**Q65**

Amita walks towards north for 5 m from point A. Then she takes a right turn and walks for 8 m. Then, again, she takes a right turn and walks for 3 m. Once again, she takes a right turn and walks for 2 m. Then she takes a left turn and walk for 2 m and stops at point B. Towards which direction should she walk in order to reach point A again? (All turns are 90-degree turns only unless specified.)

A. West



B. North

C. East

D. South

Q66

What is the mode of the following data?

70, 79, 66, 89, 68, 80, 82, 80, 71, 84, 69, 68, 61, 85, 71, 84, 68, 86, 73, 75, 83, 88, 64, 88, 65

A. 71

B. 68



C. 80

D. 88

Q67

21 is related to 83 following a certain logic. Following the same logic, 33 is related to 131. To which of the given options is 43 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 to/subtracting from/multiplying with 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

A. 161

B. 166

C. 177

D. 171

**Q68**

In onion peel and human cheek cells, the lightly stained region enclosed by the cell membrane is called:

A. Vacuole

B. Nucleus

C. Cytoplasm

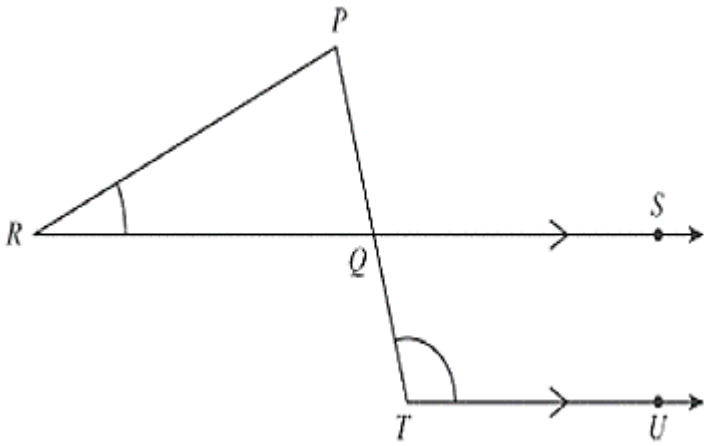


D. Cell wall



Q69

In the following figure, $RS \parallel TU$. Find the value of $\angle PQR - \angle PRQ$, if $\angle QTU + \angle PRQ = 130^\circ$ and $\angle RPQ = 80^\circ$.



A. 65°

B. 70°

C. 45°

D. 50°



Q70

The lifetime of certain species is given in the following table. Calculate the modal lifetime (rounded up to one decimal place) in days.

Lifetime (days)	0-10	10-20	20-30	30-40	40-50	50-60
Frequency	10	35	52	61	38	29

A. 32.8

B. 40

C. 29

D. 36.5



Q71

Two pipes, A and B, can fill a water tank in 1 hour and $1\frac{1}{2}$ hours, respectively. Pipe A is opened. After 15 minutes without closing it, pipe B is also opened. How much more time will both the pipes take to fill the tank?

A. 30 minutes

B. 27 minutes

C. 24 minutes

D. 25 minutes



Q72

A student's marks were incorrectly entered as 70 instead of 91. Due to this, the average marks of the class got decreased by $\frac{7}{3}$. What is the number of students in the class?

A. 17

B. 3

C. 9

D. 8



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Q73

A cylindrical rod has an outer curved surface area of 7500 cm^2 . If the length of the rod is 92 cm, then the outer radius (in cm) of the rod, rounded off to two places of decimal, is:

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

A. 12.97



B. 11.65

C. 14.12

D. 13.11

Q74

A man goes from place A to B at a speed of 12 km/h and returns from B to A at a speed of 3 km/h using the same route. The average speed (km/h) for the whole journey is:

A. $5\frac{4}{5}$

B. $7\frac{4}{5}$

C. $6\frac{4}{5}$

D. $4\frac{4}{5}$



Q75

Simplify: $\frac{0.8 \times 0.8 \times 0.8 - 0.08 \times 0.08 \times 0.08}{8 \times 8 \times 8}$

A. 0.000999



B. 0.0999

C. 0.0000999

D. 0.00999



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Q1

12 is related to 149 following a certain logic. Following the same logic, 16 is related to 261. To which of the given options is 19 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 to/subtracting from/multiplying with 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

A. 162

B. 474

C. 259

D. 366



Q2

What should come in place of the question mark (?) in the given series?

57 68 79 90 101 ?

A. 108

B. 110

C. 114

D. 112



Q3

A body of mass 4 kg has a kinetic energy of 72 J. Its speed is:

A. 9 m/s

B. 6 m/s



C. 3 m/s

D. 4 m/s

Q4

Refer to the following series and answer the question (All numbers are single digit numbers only. Counting to be done from left to right.)

(Left) 1 8 4 6 1 8 6 4 4 3 3 2 1 1 8 8 6 7 4 6 8 8 4 5 9 9 4

(Right)

How many such even numbers are there each of which is immediately preceded by an odd number and also immediately followed by an odd number?

A. 1



B. 2

C. 3

D. 0

Q5

What should come in place of ? in the given series?

57 82 118 167 231 ?

A. 313

B. 312



C. 314

D. 311

Q6

A question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and decide the appropriate answer.

Q. Four students – **Kabir, Mansi, Nupur, and Rakesh** – scored different marks.

Who scored the second highest marks?

(I) Kabir scored more than Mansi but less than Nupur.

(II) Rakesh scored less than Nupur but more than Kabir.

A. Data in Statement I alone is sufficient to answer the question while data in Statement II is not

B. Data in both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question



C. Data in both statements I and II together are NOT sufficient to answer the question

D. Data in Statement II alone is sufficient to answer the question while data in Statement I is not



Q7

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:

Some mats are carpets.
All carpets are rugs.

Conclusions:

- (I) Some mats are rugs.
(II) All rugs are carpets.

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

Q8

The cost price of 28 mangoes is the same as the selling price of 25 mangoes. Find the profit percentage.

- A. 12% ✓
B. 11.6%
C. 10%
D. 10.9%

Q9

D, E, F, G, K, L and M are sitting around a circular table, facing the centre of the table.
Only four people sit between F and G when counted from the right of F. F sits third to the left of M. E sits third to the left of D. K is an immediate neighbour of both G and M.
How many people sit between L and K when counted from the right of L?

- A. Two ✓
B. Three
C. Four
D. One

Q10

CH 43 is related to GL 23 in a certain way. In the same way, FK 85 is related to JO 65. To which of the given options is NS 76 related, following the same logic?

- A. TU 65
B. RV 65
C. TW 56
D. RW 56 ✓

Q11

Under the Right to Equality, of the Indian Constitution, which type of equality is ensured in public employment?

- A. Economic equality
B. Religious equality
C. Political equality
D. Equality of opportunity ✓

Q12

10 men and 15 boys together can complete a work in 6 days. It takes 100 days for one man alone to complete the same work. How many days will a boy alone take to complete the same work?

- A. 225 ✓
B. 240
C. 230
D. 250

Q13

Each vowel in the word WONDERS 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 will be there in the new group of letters thus formed?

- A. 2
B. 1
C. 3
D. 0 ✓

Q14

Find the smallest digit x such that the 6-digit number 28×219 is divisible by both 9 and 11.

- A. 5 ✓
B. 4
C. 6
D. 3

Q15

Transportation of water in plants takes place through _____.

- A. Xylem ✓
B. Sclerenchyma
C. Phloem
D. Parenchyma



Q16

Below are given two sets of numbers. In each set of numbers, a certain mathematical operation on the first number results in the second number. Similarly, certain mathematical operation 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 – A two/three digit number cannot be broken into individual digits for operations e.g. if 37 is followed by 10, the operation cannot be $3+7$ as a two digit number cannot be broken into individual digits)

13 - 26 - 30 - 60 ; 9 - 18 - 22 - 44

A. 6 - 12 - 16 - 32



B. 2 - 4 - 8 - 12

C. 10 - 20 - 24 - 54

D. 3 - 6 - 10 - 22

Q17

What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$28 \times 2 - 4 \div 24 + 41 = ?$$

A. 70

B. 69



C. 71

D. 68

Q18

Three persons P, Q and R started a business with their shares in the ratio 6 : 3 : 15. After 5 months Q withdrew his 80% share and R withdrew his 52% share 4 months prior to completion of the year. If total profit in the year is ₹29900 then find the share of R (in ₹) in the profit.

A. 18580

B. 18538



C. 18498

D. 18558

Q19

A shopkeeper marks an article at ₹x and offers a discount of 65% on it. He sells it for ₹378 after charging VAT of 44% on the discounted price. What is the value of x?

A. 1,000

B. 700

C. 900

D. 750

**Q20**

If 2 is added to each odd digit and 1 is subtracted from each even digit in the number 7815642, which of the following digits will be third from the left?

A. 9

B. 3



C. 1

D. 7

Q21

A, B, C, D, E, F and G live on seven 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 is numbered 7. B lives on the third floor. Only two persons live between B and D. Only one person live between D and A. Only one person lives between F and C but C does not live on the topmost floor. G lives immediately below E. On which floor number does E live?

A. Floor number 6

B. Floor number 7

C. Floor number 2



D. Floor number 5

Q22

A luxury watch is marked at ₹75,000. During a festival, an 18% discount is offered followed by another ₹5,000 off. What is the final price of the watch?

A. ₹57,500

B. ₹56,500



C. ₹55,600

D. ₹55,700

Q23

Two trains are moving in the same direction at speeds of 40 km/h and 20 km/h, respectively. The faster train completely overtakes a man seated in the slower train in 10 seconds. Find the length (in m) of the faster train. (Round off your answer to the nearest integer value in meters.)

A. 56



B. 55

C. 57

D. 54



Q24

A solid sphere of diameter 24 cm is melted and recast into small solid cones each of base radius 4 cm and height 9 cm. How many cones will be obtained?

A. 56

B. 48



C. 32

D. 45

Q25

A question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and decide the appropriate answer.

Q. Four runners – Ravi, Sahil, Tarun, and Uday – run at different speeds.

Who is the fastest?

(I) Tarun runs faster than Ravi but slower than Sahil.

(II) Uday runs slower than Sahil but faster than Tarun.

A. Data in Statement I alone is sufficient to answer the question while data in Statement II is not

B. Data in Statement II alone is sufficient to answer the question while data in Statement I is not

C. Data in both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question



D. Data in both statements I and II together are NOT sufficient to answer the question

Q26

Let AB be an arc on a circle C that is 14 cm long. If the circumference of the circle is 180 cm, then find the angle made by arc AB at the centre.

A. 30°

B. 28°



C. 32°

D. 24°

Q27

If 33% of 497 = 71% of x, then the value of x is:

A. 123

B. 231



C. 132

D. 213

Q28

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 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).

2 - 5

10 - 101

A. 8 - 63

B. 4 - 18

C. 5 - 26



D. 9 - 80

Q29

The given data shows the marks obtained by 50 students of a class in a test. What is the mean marks obtained by students?

Marks	Number of Students
20 - 30	5
30 - 40	12
40 - 50	10
50 - 60	15
60 - 70	8

A. 52.3

B. 46.8



C. 45.2

D. 61.1

Q30

A sum of money triples itself at a certain rate of compound interest in 3 years. In how many years will it amount to 9 times of itself?

A. 3 years

B. 6 years



C. 10 years

D. 12 years



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Q31

During a sale, 44% of the goods are sold at a 28% profit, 25% of the remaining goods are sold at a 48% profit and the rest are sold at an 18% loss. If there is an overall profit of $x\%$, then what is the value of x ?

A. 17.55%

B. 9%

C. 11.48%



D. 17%

Q32

Seven boxes, U, V, O, P, Q, R and S, are kept one over the other but not necessarily in the same order. Q is kept second from the top. Only two boxes are kept between Q and R. S is kept immediately below Q. Only one box is kept between P and S. V is kept immediately above U. Which box is third from the top?

A. R

B. V

C. S



D. P

Q33

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.)

A. KNS

B. MOU



C. RUZ

D. CFK

Q34

Waste products formed in body by energy generation processes are desirable to remove by which of the following life processes?

A. Nutrition

B. Digestion

C. Circulation

D. Excretion



Q35

A, B, C, D, E, F and G are sitting around a circular table, facing the centre.

Only two people sit between B and G when counted from the left of G. D sits third to the left of A. E sits to the immediate right of A. E sits second to the left of B. C is an immediate neighbour of D.

How many people sit between C and E when counted from the right of C?

A. 2



B. 1

C. 3

D. 4

Q36

A and B started a business investing ₹45,000 and ₹60,000, respectively. After 4 months, C joined them with ₹75,000. If the total profit at the end of the year is ₹62,000, find the difference (in ₹) between the shares of B and C in the profit.

A. 4,000



B. 6,000

C. 7,000

D. 8,000

Q37

Each letter in the word **PERSON** is changed to the second letter immediately following it in the English alphabetical order, and then all the letters thus formed are arranged in alphabetical order. Which letter will be fifth from the right in the new number thus formed?

A. Q

B. P



C. T

D. E

Q38

Jessica starts from Point A and drives 56 km towards north. He then takes a right turn, drives 58 km, turns right and drives 61 km. He then takes a right turn and drives 61 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)

A. 3 km to the east



B. 4 km to the west

C. 2 km to the east

D. 1 km to the east



Q39

What is the mode of the following data?

48, 42, 46, 42, 44, 43, 48, 49, 48, 45, 53, 46, 47, 47, 49, 53, 50, 41

A. 48



B. 47

C. 42

D. 46

Q40

A pipe can fill a tank in 5 hours, and another pipe can empty the same tank in 10 hours. How long will it take for both pipes to fill the tank when working together?

A. 10 hours



B. 12 hours

C. 15 hours

D. 8 hours

Q41

What sum (in ₹) will earn an interest of ₹480 in 2 years at 15% simple interest per year?

A. 1400

B. 1750

C. 1800

D. 1600



Q42

Each vowel in the word RESTING 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. Which of the following letters will appear exactly twice in the new group of letters thus formed?

A. S

B. F



C. J

D. R

Q43

A sound wave has a frequency of 4 kHz and a wavelength of 25 cm. How much time will it take to travel a distance of 2.5 km?

A. 2.0 s

B. 2.5 s



C. 2.6 s

D. 2.2 s

Q44

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

GVJ : ZOB

AIE : TBW

A. ATN : TLF

B. BRA : QDN

C. AMY : TFQ



D. TYU : AHL

Q45

Each of A, B, C, D, S, T and U has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. S has the exam on Thursday, and U has the exam on Saturday. T has the exam immediately before B. A has the exam on one of the days after C. D has the exam immediately after B. How many people have exams between A and D?

A. One

B. Four

C. Two

D. Three



Q46

Which of the following correctly describes the properties of a proton?

A. It has no charge and is present in the nucleus.

B. It is positively charged and has a mass approximately 2000 times that of an electron.



C. It has a positive charge and a mass equal to an electron.

D. It is negatively charged and located inside the nucleus.



Q47

4% of a number is what percentage of 16% of the same number?

- A. 400%
- B. 25%
- C. 20%
- D. 10%



Q48

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

(Left) I A & @ @ # X % A N * @ W U # P \$ U X & K Y (Right)

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

- A. 3
- B. 4
- C. 2
- D. 1



Q49

Two trains of equal length are running on parallel lines in the same direction at speeds of 39 km/h and 21 km/h. The faster train passes the slower train in 26 seconds. The length of each train is:

- A. 80 meters
- B. 48 meters
- C. 45 meters
- D. 65 meters



Q50

Which of the following is a mechanical method of weed control?

- A. Crop rotation
- B. Seed treatment
- C. Hand weeding
- D. Spraying herbicides



Q51

What should come in place of the question mark (?) in the given series based on the English alphabetical order?
ILT LOW ORZ RUC ?

- A. UFX
- B. UFF
- C. UXF
- D. UDE



Q52

Two alloys are made by mixing metals A and B in the ratio 3 : 2 and 5 : 3, respectively. Equal quantities of the two alloys are melted and mixed together. Find the ratio of metals A and B in the final mixture.

- A. 49 : 30
- B. 8 : 5
- C. 49 : 31
- D. 7 : 4



Q53

Refer to the following letter series and answer the question that follows. Counting to be done from left to right only.

(Left) T O W A Q D F H G U K S I C X Z O F H G U K I S (Right)

How many such consonants are there, each of which is immediately preceded by a vowel and also immediately followed by a vowel?

- A. Three
- B. One
- C. Two
- D. None



Q54

In a certain code language, 'HAGS' is coded as '7934' and 'EAHS' is coded as '9413'. What is the code for 'E' in the given code language?

- A. 4
- B. 9
- C. 3
- D. 1



Q55

In a certain code language,

'A + B' means 'A is the mother of B',
'A - B' means 'A is the brother of B',
'A × B' means 'A is the sister of B', and
'A ÷ B' means 'A is the father of B'.

Based on the above, how is P related to T, if 'P × S ÷ R - Q + T'?

A. Mother's father's brother

B. Mother's father's sister

C. Father's sister's husband

D. Mother's sister's husband

Q56

In a division sum, the divisor is 10 times the quotient and 6 times the remainder. If the remainder is 25, what is the dividend?

A. 2280

B. 2275

C. 2276

D. 2277

Q57

In a code language, 'PET' is coded as 123 and 'NEAR' is coded as 152. How will 'TRAIN' be coded in the same language?

A. 288

B. 196

C. 218

D. 310

Q58

During the chlor-alkali process, which of the following statements is correct regarding the products formed at different electrodes?

A. Hydrogen gas is released at the cathode and chlorine gas at the anode.

B. Chlorine gas is released at the cathode and hydrogen gas at the anode.

C. Sodium hydroxide is formed at the anode and chlorine gas at the cathode.

D. Sodium hydroxide and hydrogen gas both form at the anode.

Q59

The Indian Genomic Data Set launched in 2025 is stored at which of the following facilities?

A. Bharat Bioinformatics Center

B. Indian Biological Data Centre

C. Indian Genomics Mission Lab

D. National Data Archive of India

Q60

In a certain code language,

'A + B' means 'A is the mother 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'.

Based on the above, how is P related to T, if 'P × Q ÷ S - R + T'?

A. Father's sister

B. Mother's sister

C. Mother's mother

D. Father's mother

Q61

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?

22 B 108 A 12 C 43 D 171 = ?

A. 71

B. 72

C. 70

D. 75

Q62

Chahak starts from point A and walks for 6 m towards the south. Then she takes a left turn and walks for 5 m. Then she takes a left turn again and walks for 9 m. Once again, she takes a left turn and walks for 2 m. At last, she takes one more left turn and walks for 3 m. And she stops at point B. Towards which direction should she walk in order to reach point A again? (All turns are 90-degree turns only unless specified.)

A. East

B. West

C. North

D. South



Q63

Among five people named V, W, X, Y and Z, each have a certain age. The age of X is 30. V is four times the age of W. Y is twice the age of V. Z is five times the age of W. If Z is half the age of X, what is the age of Y?

A. 25

B. 75

C. 24



D. 45

Q64

Each of G, H, I, J, K, L and M has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. G has an exam on Wednesday. Only two persons have exam between G and L. I has exam immediately before L. H's exam is not on the last day. J has exam immediately after K. On which day does M have the exam?

A. Saturday

B. Friday

C. Monday

D. Sunday

**Q65**

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

CMA GQF KUK OYP ?

A. SCU



B. SMU

C. SCA

D. RMU

Q66

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.)

A. WNK

B. OFC

C. TLH



D. LCZ

Q67

Each vowel in the word ROCKING is changed to the letter immediately preceding it in the English alphabetical order and each consonant is changed to the letter immediately following it in the English alphabetical order. Which of the following letters will appear exactly twice in the new group of letters thus formed?

A. D

B. H



C. L

D. O

Q68

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.)

A. JA - LD

B. GX - IA

C. SM - UQ



D. PV - RY

Q69

Which of the following statements correctly describes a double concave lens?

A. It is equally thick at the center and edges; it neither converges nor diverges light.

B. It is thicker at the edges and thinner in the middle; it diverges light rays.



C. It is thinner at the edges and thicker in the middle; it converges light rays.

D. It is used to focus light to a single point.

Q70

BIGE is related to CKJI in a certain way based on the English alphabetical order. In the same way, RYAK is related to SADO. To which of the given options is JQTB related, following the same logic?

A. JSXF

B. KTWE

C. KSWF



D. JSXE

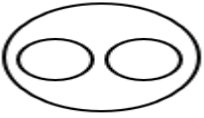


Q71

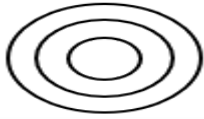
Select the Venn diagram that best illustrates the relationship between the following classes.

Trees, Grass, Bamboo

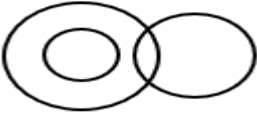
A.



B.



C.



D.



Q72

If $X + \frac{1}{X} = 15$, find the value of $X^2 + \frac{1}{X^2}$.

A. 143

B. 223



C. 125

D. 225

Q73

25:8152:8126:925:18

A. 25:81



B. 26:9

C. 52:81

D. 25:18

Q74

A student's marks were incorrectly entered as 84 instead of 100. Due to this, the average marks of the class got decreased by $\frac{8}{7}$. What is the number of students in the class?

A. 10

B. 18

C. 9

D. 14



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Q75

A circle is inscribed in the $\triangle ABC$, touching AB, BC and AC at the points P, Q and R, respectively. If $AB - BC = 3$ cm, $AB - AC = 2$ cm and the perimeter of $\triangle ABC = 60$ cm, then $PB + AR$ (in cm) is

A. $\frac{61}{3}$

B. $\frac{64}{3}$

C. $\frac{65}{3}$



D. $\frac{68}{3}$

