



रेलवे भर्ती बोर्ड / RAILWAY RECRUITMENT BOARD
सी ई एन - ०३/२०२६ - CEN - 03/2026
सेक्शन कंट्रोलर की भर्ती / Recruitment of Section Controller



RRB SECTION CONTROLLER 2026

Section Controller | CEN 03/2026

ENGLISH ANSWER KEY

Official Answer Key

All 4 Shifts · 12-10-2026 to 13-10-2026

Questions	100
Marking	+1 correct / -1/3 wrong
Duration	120 minutes
Sections	Analytical & Mathematical 60 · Logical 20 · Mental Reasoning 20

Every paper here is the official RRB response sheet with the correct answer marked.

HOW TO USE THIS BOOK

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

Check your marks, normalized score and zone-wise rank free at
rank.qmaths.in

Blackbook

Score & Rank Calculator · rank.qmaths.in

Compiled 26 October 2026

INDEX · Click any row to open that paper

RRB Section Controller 2026 (English) · 4 shifts

DAY	DATE	SHIFT	TIME	PAGE
Day 1	12-10-2026	Shift 1	09:00 - 11:00	3
Day 1	12-10-2026	Shift 2	14:00 - 16:00	27
Day 2	13-10-2026	Shift 1	09:00 - 11:00	51
Day 2	13-10-2026	Shift 2	14:00 - 16:00	74



रेलवे भर्ती बोर्ड / RAILWAY RECRUITMENT BOARD

सी ई एन - ०३/२०२६ - CEN - 03/2026

सेक्शन कंट्रोलर की भर्ती / Recruitment of Section Controller



Test Date	12/10/2026
Test Time	9:00 AM - 11:00 AM
Subject	RRB SECTION CONTROLLER CBT 1

*** Note**

Correct Answer will carry 1 mark per Question.

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

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

2. Chosen option on the right of the question indicates the option selected by the candidate.

Section : RRB SECTION CONTROLLER CBT 1

Q.1 Given the system: $2x + y + bz = 4$, $4x + 2y + 2bz = d$, $6x + 3y + 3bz = 12$, for which value of d does the system have infinite solutions?

- Ans**
- ☒ A. $d = 4$
 - ☒ B. $d = 8$
 - ☒ C. $d \neq 8$
 - ☒ D. $d = 12$

Q.2 During a lab experiment, a researcher labels a sequence of test tubes so that each tube receives a consecutive natural number, starting from 13. If the researcher adds 18 tubes in total, what is the sum of the numbers on the labels of all tubes used?

- Ans**
- ☒ A. 507
 - ☒ B. 387
 - ☒ C. 459
 - ☒ D. 585

Q.3 A water tank shaped like a cuboid measures 10 m in length, 2 m in width, and 1.5 m in height. What is the maximum volume of water it can hold?

- Ans**
- ☒ A. 13 m^3
 - ☒ B. 20 m^3
 - ☒ C. 15 m^3
 - ☒ D. 30 m^3

Q.4 A shopkeeper marks the price of a smartphone at ₹6,000. He gives two successive discounts. After the first discount of 20%, he still makes a profit of 25% on the cost price. After the second discount, his profit reduces to 10% on the cost price. What is the percentage of the second discount?

- Ans**
- ☒ A. 10%
 - ☒ B. 12%
 - ☒ C. 13%
 - ☒ D. 11%

Q.5 A square courtyard has a side length of 24 m. At each corner of the courtyard, a quarter-circle of radius 8 m is constructed inside the square. A circular fountain of radius 4 m is placed exactly at the centre of the courtyard. The fountain does not overlap with any quarter-circle. The remaining portion of the courtyard is paved with decorative tiles and is considered the shaded region. The area (in m^2) of the shaded region is:

- Ans**
- ☒ A. $576 - 78\pi$
 - ☒ B. $576 - 72\pi$
 - ☒ C. $576 - 80\pi$
 - ☒ D. $576 - 84\pi$

Q.6 The perimeter of a rectangular plot is 82 m, and the area is 420 sq. m. What is the length (in m) of its diagonal?

- Ans**
- ☒ A. 41
 - ☒ B. 25
 - ☒ C. 34
 - ☒ D. 29

Q.7 The sum of Jaya's present age and four times Priya's present age is 45 years. Jaya's father is twice as old as Jaya, and Priya's brother is 3 years older than Priya. If the sum of the present ages of Jaya's father and Priya's brother is 51 years, what is the sum of the present ages (in years) of Priya and Jaya?

- Ans**
- ☒ A. 27
 - ☒ B. 22
 - ☒ C. 30
 - ☒ D. 29

Q.8 A project takes 36 days to complete with a certain number of workers and machines. The time required is directly proportional to the amount of work, inversely proportional to the number of workers, and inversely proportional to the square of the number of machines. If the number of workers is doubled and the number of machines is tripled, while the amount of work remains the same, how many days will the project take to complete?

- Ans**
- ☒ A. 4
 - ☒ B. 8
 - ☒ C. 6
 - ☒ D. 2

Q.9 Two parallel lines are cut by a transversal. If one alternate interior angle measures $(5x - 8)^\circ$ and the other measures $(2x + 46)^\circ$, what is the value of x ?

- Ans**
- ☒ A. 18
 - ☒ B. 12
 - ☒ C. 14
 - ☒ D. 20

Q.10 A machine is sold by three sellers in succession. The first seller makes a 20% profit, the second seller makes a 25% profit, and the third seller makes a 30% profit. If the second seller's profit is ₹500 more than the first seller's profit, find the original cost price of the machine.

- Ans**
- ☒ A. ₹6,000
 - ☒ B. ₹4,000
 - ☒ C. ₹7,500
 - ☒ D. ₹5,000

Q.11 A number y is such that $15 : 20 :: y : 24$. What is the value of y ?

- Ans
- ☐ A. 20
 - ☒ B. 18
 - ☐ C. 16
 - ☐ D. 24

Q.12 Three friends A, B, and C enter into a business with investments in the ratio $2 : 3 : 5$. After 6 months, A increases his investment by 50%, B reduces his investment by 20%, while C keeps his investment unchanged. All the investments remain active in the business for a total duration of one year. What is the resulting ratio of their effective capital contributions?

- Ans
- ☒ A. 25:27:50
 - ☐ B. 25:23:50
 - ☐ C. 23:27:50
 - ☐ D. 25:27:52

Q.13 Find the arithmetic mean of the given data.

Class	0-8	8-16	16-24	24-32	32-40
Interval					
Frequency	4	3	2	5	2

- Ans
- ☐ A. 18
 - ☐ B. 24
 - ☐ C. 27
 - ☒ D. 19

Q.14 The diameter of an iron ball is 15 cm. It is melted and made into a solid cylinder of height 2.5 cm, find the diameter of the base of the cylinder.

- Ans
- ☐ A. 4 cm
 - ☒ B. 30 cm
 - ☐ C. 15 cm
 - ☐ D. 8 cm

Q.15 Find the value of $(2^3 \times 4^2) \div 2^2$.

- Ans
- ☐ A. $4^2 \div 2^2$
 - ☒ B. $2^3 \times 2^2$
 - ☐ C. $2^6 \div 2^2$
 - ☐ D. $2^3 \times 4^2$

Q.16 A company manufactures three types of products, A, B, and C. The production cost per unit and the number of units produced are given below:

Product	A	B	C
Cost per unit (₹)	120	150	200
Units produced	$5x$	$3x$	$2x$

Due to a revision in production plan, the units of A increase by 20%, those of B decrease by 10%, and those of C increase by 50%.

What is the new weighted average cost per unit (in ₹)? (Round off your answer to the nearest integer.)

- Ans
- ☒ A. 147
 - ☐ B. 140
 - ☐ C. 143
 - ☐ D. 135

Q.17 Which of the following is the smallest integer n such that the sum of the cubes of the first n natural numbers exceeds 10,000?

- Ans ☒ A. 14
☐ B. 16
☐ C. 13
☐ D. 15

Q.18 A cyclist moves at a constant speed of 5 m/s for 4 hours. How far does the cyclist travel?

- Ans ☐ A. 60 km
☐ B. 90 km
☐ C. 45 km
☒ D. 72 km

Q.19 If the sum of the first n terms of an AP is given by $S_n = 2n^2 + 7n$, find the 25th term of the AP.

- Ans ☐ A. 87
☐ B. 114
☐ C. 96
☒ D. 105

Q.20 Simplify: $x(4x - 7) + 4(x^2 - 5) + 12$

- Ans ☐ A. $-8x^2 - 7x + 8$
☐ B. $8x^2 - 7x + 8$
☒ C. $8x^2 - 7x - 8$
☐ D. $8x^2 + 7x + 8$

Q.21 A vendor sells 32 chocolates for ₹1 and earns a 50% profit. How many chocolates did he purchase for ₹1?

- Ans ☐ A. 50
☐ B. 54
☒ C. 48
☐ D. 52

Q.22 A coin is tossed twice. What is the probability of getting atleast one head?

- Ans ☐ A. $\frac{1}{2}$
☒ B. $\frac{3}{4}$
☐ C. $\frac{1}{4}$
☐ D. $\frac{1}{3}$

Q.23 The following table shows the total number of employees joining five different companies in six different years:

	X	Y	Z	M	N
2020	540	260	180	520	400
2021	620	240	160	560	320
2022	480	280	190	550	100
2023	660	320	220	640	260
2024	700	300	210	540	450
2025	350	740	230	680	500

By what percentage (rounded off to the nearest integer) should the number of employees joining company Y in 2025 be reduced so that the combined employees joining companies Y and Z in 2025 become equal to the combined employees joining companies M and N in 2023?

- Ans
- ☐ A. 11%
 - ☐ B. 12%
 - ☐ C. 5%
 - ☒ D. 9%

Q.24 If 10% of $x = 192$, then x is equal to:

- Ans
- ☐ A. 3940
 - ☐ B. 2020
 - ☐ C. 3840
 - ☒ D. 1920

Q.25 The average height of a group of 10 students is 133 cm. Two more students of height 157 cm and 187 cm joined the group, and 3 students of average height 184 cm leave the group. What is the new average height (in cm, rounded off to 1 decimal place) of the group after the changes?

- Ans
- ☐ A. 135.3
 - ☒ B. 124.7
 - ☐ C. 117.4
 - ☐ D. 120.2

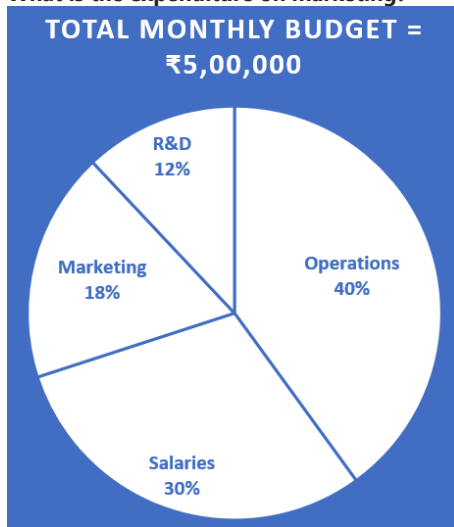
Q.26 In a circle, a chord AB subtends a right angle at the center O of the circle. If the radius of the circle is 7 cm, what is the length of chord AB (in cm)?

- Ans
- ☐ A. $5\sqrt{2}$
 - ☐ B. $3\sqrt{2}$
 - ☒ C. $7\sqrt{2}$
 - ☐ D. $9\sqrt{2}$

Q.27 Simplify the expression: $\frac{(18^2 - 14^2) \times \sqrt{225}}{(10^2 - 6^2)}$

- Ans
- ☐ A. 25
 - ☐ B. 38
 - ☒ C. 30
 - ☐ D. 20

- Q.28 A company allocates its monthly budget via the following pie chart as shown in the data.
What is the expenditure on marketing?



- Ans
- ☐ A. ₹95,000
 - ☐ B. ₹1,00,000
 - ☐ C. ₹80,000
 - ☒ D. ₹90,000

- Q.29 A clothing store tags a jacket with a marked price of ₹2,400. If a customer buys it for ₹2,040, what was the percentage discount offered?

- Ans
- ☐ A. 10%
 - ☐ B. 18%
 - ☒ C. 15%
 - ☐ D. 12%

- Q.30 Which of the following ratios is the greatest?

- Ans
- ☐ A. 33 : 85
 - ☒ B. 42 : 53
 - ☐ C. 32 : 76
 - ☐ D. 26 : 69

- Q.31 Akshay's salary is ₹20,000 per month. He spends ₹4,500 on house rent, ₹2,000 on bills and the rest of the amount is his monthly savings. Find his savings in a year, if in the month of his birthday he spent his complete monthly saving for birthday celebration.

- Ans
- ☐ A. ₹1,62,000
 - ☐ B. ₹1,21,500
 - ☐ C. ₹1,35,000
 - ☒ D. ₹1,48,500

- Q.32 A frequency distribution is given below:

Value (x)	Frequency (f)
10	2
20	4
30	3
40	1

What is the arithmetic mean?

- Ans
- ☐ A. 25
 - ☒ B. 23
 - ☐ C. 21
 - ☐ D. 18

Q.33 Simplify: $8 + 12 \div 4 \times 3 - 5$

- Ans
- ☒ A. 11
 - ☒ B. 12
 - ☒ C. 5
 - ☒ D. 15

Q.34 The LCM of the numbers 13, 91 and 143 is:

- Ans
- ☒ A. 1001
 - ☒ B. 1231
 - ☒ C. 1189
 - ☒ D. 1331

Q.35 A dataset of daily high temperatures for a week (in degrees Celsius) is: 21, 24, 18, 22, 27, 19, 25. If the temperature of 27 is replaced by 30, what is the new range (in degrees Celsius)?

- Ans
- ☒ A. 10
 - ☒ B. 8
 - ☒ C. 9
 - ☒ D. 12

Q.36 In what ratio must a grocer mix two varieties of rice worth ₹49 per kg and ₹121 per kg so that if he sells the mixture at ₹132 per kg, he may gain 32%?

- Ans
- ☒ A. 11 : 12
 - ☒ B. 7 : 17
 - ☒ C. 9 : 22
 - ☒ D. 13 : 19

Q.37 A manufacturer makes a machine at a production cost of ₹50,000 and sells it to a distributor at a 20% profit. The distributor then resells it to a retailer at a 15% profit. Finally, the retailer sells it to the end customer at a 10% profit. Before selling to the customer, the retailer also incurs an additional transportation and handling cost of ₹2,000. Find the final selling price of the machine.

- Ans
- ☒ A. ₹78,100
 - ☒ B. ₹78,200
 - ☒ C. ₹76,300
 - ☒ D. ₹78,500

Q.38 The coordinates of a triangle are A(1, 2), B(4, 6), and C(k, 10). If the area of the triangle is 15 square units, then the possible value(s) of k is (are):

- Ans
- ☒ A. - 0.5 only
 - ☒ B. - 1 and 29
 - ☒ C. - 0.5 and 14.5
 - ☒ D. 14.5 only

Q.39 The odometer of a car reads 12050 km at the start of a trip and 12770 km at its end. If the trip took 4 hours, then the average speed of car in m/sec is:

- Ans
- ☒ A. 50
 - ☒ B. 45
 - ☒ C. 55
 - ☒ D. 58

Q.40 In a 1000 m race, skater A skates at a speed of 10 m/s, while skater B skates at 12.5 m/s. However, A is given a head start of 150 m over B and also starts 4 seconds earlier. Who wins the race and by how much time?

- Ans**
- ☒ A. B wins by 1 second
 - ☐ B. A wins by 2 seconds
 - ☐ C. A wins by 1 second
 - ☐ D. B wins by 2 seconds

Q.41 A can do a piece of work in 80 hours; B and C together can do it in 42 hours, while A and C together can do it in 30 hours. How long (in hours) will B alone take to do it?

- Ans**
- ☐ A. 338
 - ☐ B. 337
 - ☒ C. 336
 - ☐ D. 335

Q.42 Solve the following system of equations for (x, y, z) .

$$3x + y + z = 0$$

$$x - 2y + 3z = 3$$

$$5x + 7y + 6 = 8$$

- Ans**
- ☐ A. (2,1,3)
 - ☒ B. (-1,1,2)
 - ☐ C. (1,1,1)
 - ☐ D. (2,3,-1)

Q.43 What is the median of 15, 22, 18, 26, 20, 24?

- Ans**
- ☐ A. 22
 - ☐ B. 20
 - ☒ C. 21
 - ☐ D. 23

Q.44 If an arithmetic progression has a first term of -3.6 and a common difference of 7, what is the 9th term?

- Ans**
- ☐ A. 43.4
 - ☒ B. 52.4
 - ☐ C. 48.4
 - ☐ D. 58.4

Q.45 What is the average of the cubes of the first six natural numbers?

- Ans**
- ☒ A. 73.5
 - ☐ B. 86.5
 - ☐ C. 83.5
 - ☐ D. 76.5

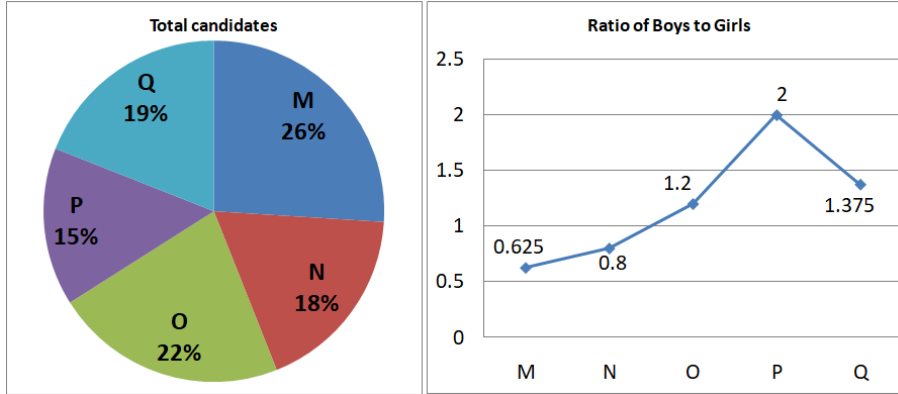
Q.46 Let HCF of $x = 450$, $y = 360$ and $z = 80k$ be 30. Find the LCM of x , y and z when k is the least natural number.

- Ans**
- ☐ A. 2,160
 - ☒ B. 3,600
 - ☐ C. 8,400
 - ☐ D. 4,500

Q.47 A boat travels downstream in a river from point A to point B and takes 4 hours. The same boat returns upstream from B to A and takes 6 hours. The speed of the stream is 2 km/h. What is the distance between A and B?

- Ans**
- ☒ A. 58 km
 - ☒ B. 48 km
 - ☒ C. 42 km
 - ☒ D. 44 km

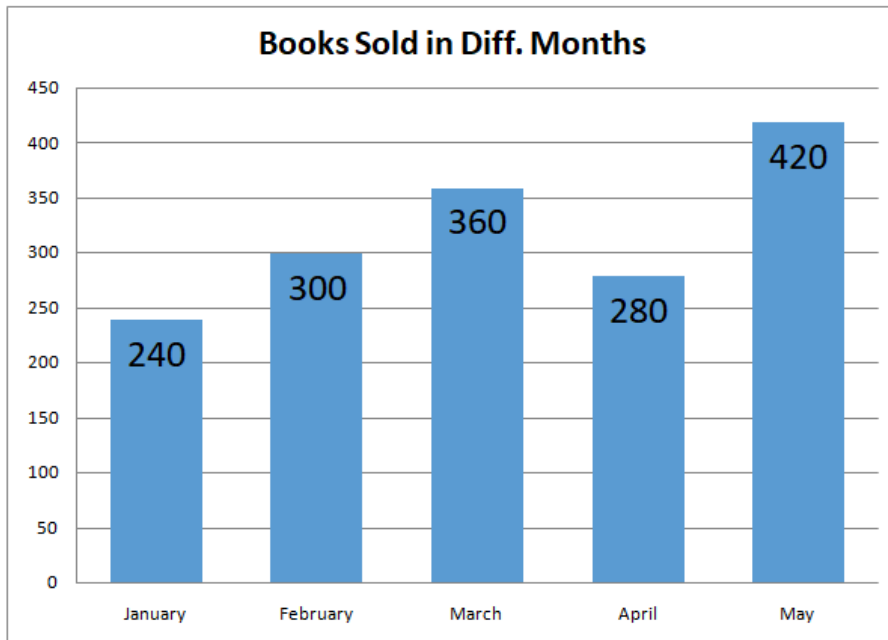
Q.48 The following chart shows the total number of candidates in 5 different organizations, and the line graph represents the ratio of boys and girls in these organizations. Let the total number of candidates be 60,000.



If 50% of the girl candidates transferred from organization O to organization P, then the total number of boy candidates in M is what percentage of the total number of girl candidates in organization P?

- Ans**
- ☒ A. 83%
 - ☒ B. 92%
 - ☒ C. 105%
 - ☒ D. 100%

Q.49 The bar graph shows the number of books sold by a bookstore during five months.



If each book costs ₹250, how much more revenue was generated in May than in February?

- Ans**
- ☒ A. ₹40,000
 - ☒ B. ₹35,000
 - ☒ C. ₹30,000
 - ☒ D. ₹25,000

Q.50 If 40% of a number is equal to 60% of another number, what is the ratio of the first number to the second?

- Ans
- ☐ A. 2:3
 - ☒ B. 3:2
 - ☐ C. 4:3
 - ☐ D. 3:4

Q.51 A and B start a cafe with a capital of ₹7,000 and ₹3,000, respectively. After a year, out of the profit of ₹6,700, A gets his share of profit plus some money as his salary. In total, if A gets ₹8,800, what is the salary amount (in ₹) he received?

- Ans
- ☒ A. 4,110
 - ☐ B. 4,115
 - ☐ C. 4,104
 - ☐ D. 4,111

Q.52 The sum of Riya's present age and 2 times Ayushi's present age is 62 years. Riya's father is presently 2 times as old as Riya. Ayushi's brother's present age is 4 years more than Ayushi's present age. The sum of the present ages of Riya's father and Ayushi's brother is 80 years. What is the sum of the present ages (in years) of Ayushi and Riya?

- Ans
- ☐ A. 41
 - ☐ B. 34
 - ☐ C. 33
 - ☒ D. 46

Q.53 How many positive integers less than 100 are coprime with 90?

- Ans
- ☐ A. 27
 - ☐ B. 18
 - ☐ C. 45
 - ☒ D. 26

Q.54 If the total surface area of a hemisphere is 972π sq. cm, then the diameter (in cm) of the base of the hemisphere is:

- Ans
- ☐ A. 48
 - ☐ B. 12
 - ☐ C. 24
 - ☒ D. 36

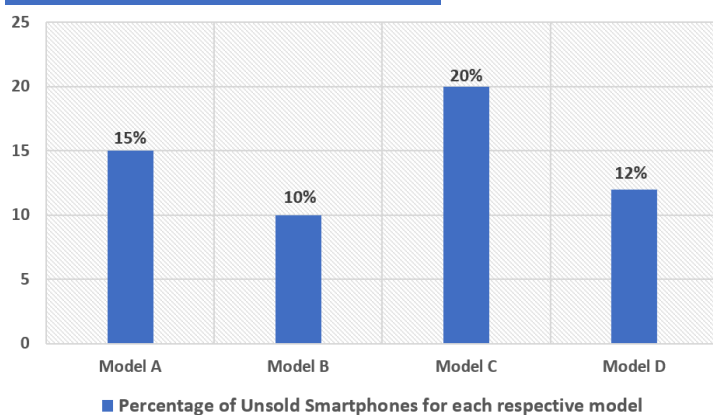
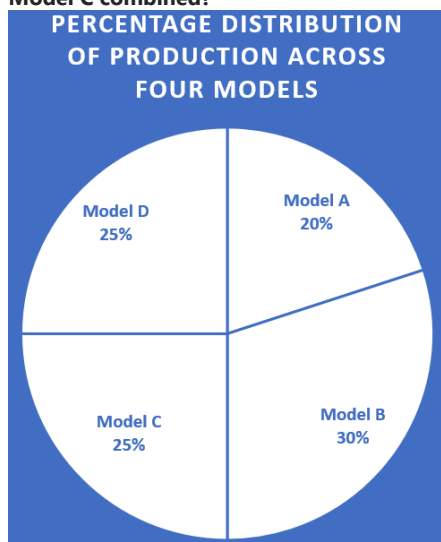
Q.55 What is the probability of drawing a card that is neither black nor a face card?

- Ans
- ☐ A. $\frac{6}{13}$
 - ☐ B. $\frac{12}{13}$
 - ☒ C. $\frac{5}{13}$
 - ☐ D. $\frac{8}{13}$

Q.56 Which of the following numbers is divisible by both 2 and 3?

- Ans
- ☐ A. 245
 - ☐ B. 244
 - ☒ C. 246
 - ☐ D. 243

Q.57 The following mixed graph presents data on a company that produced a total of 40,000 smartphones in a year. What is the total number of unsold smartphones for Model B and Model C combined?



- Ans**
- ☒ A. 2,400
 - ☒ B. 2,800
 - ☒ C. 3,000
 - ☒ D. 3,200

Q.58 The table shows the budget distribution of different states in India for education. Study the table and answer the question.

Budget distribution (in ₹ crores)

Year	S1	S2	S3	S4	S5
2020	390	91	207	164	
2015	420	144	234	178	198
2010	498	111	264	180	183
2005	526	129	247	197	180
2000	652	148	280	212	143
					120

Which states show a continuous increase/decrease in budget distribution over the years?

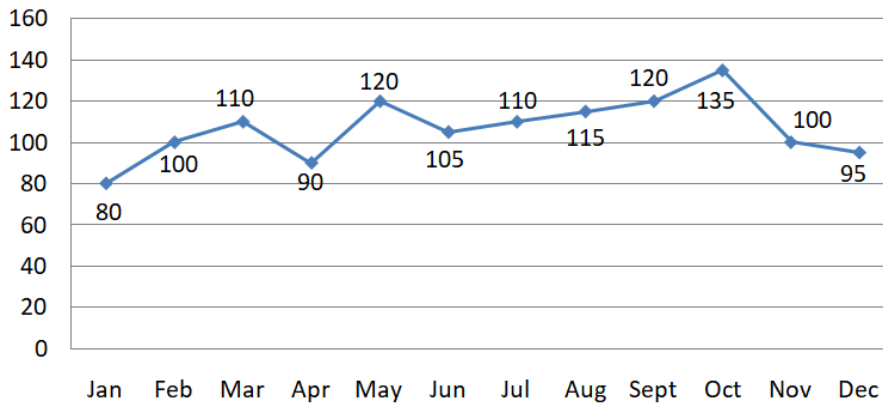
- Ans**
- ☒ A. S3,S4,S5
 - ☒ B. S2,S3,S4
 - ☒ C. S1,S2,S5
 - ☒ D. S1,S4,S5

Q.59 If Pipe A can fill a tank in 10 hours, Pipe B fills it in 15 hours, and Pipe C empties the full tank 20 hours, what is the net fraction of the tank filled after all three pipes have operated for one hour?

Ans

- ✓ A. $\frac{7}{60}$
 ✗ B. $\frac{1}{10}$
 ✗ C. $\frac{1}{5}$
 ✗ D. $\frac{1}{6}$

Q.60 The following graph represents the month-wise circulation of the number of copies of a monthly magazine (in thousands) for the year 2025.



The average monthly circulation during Jan-May is what percent (nearest integer value) of the average monthly circulation during Jul-Nov?

Ans

- ✗ A. 78%
 ✓ B. 86%
 ✗ C. 70%
 ✗ D. 93%

Q.61 This question is based on the following words

OLD BAY WET POD

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?

Ans

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

Q.62 Refer to the following letter, symbol series and answer the question. Counting to be done from left to right only.

(Left) A * N K O R @ B M H ? / & \ S G O T L = R (Right)

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

Ans

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

Q.63 The position(s) of how many letters will remain unchanged if each of the letter in the word COUNTRY is arranged as per English alphabetical order?

- Ans**
- ☒ A. Three
 - ☐ B. One
 - ☐ C. Two
 - ☐ D. Four

Q.64 Cori is the sister of Ashley. Ashley is the wife of Piyush. Piyush is the father of Lindsay. Lindsay is the brother of Alex. How is Cori related to Alex?

- Ans**
- ☐ A. Father's mother
 - ☒ B. Mother's sister
 - ☐ C. Father's sister
 - ☐ D. Mother's mother

Q.65 Which of the following times makes an angle of 90° between the hour hand and the minute hand?

- Ans**
- ☐ A. 4:50 a.m.
 - ☒ B. 3:00 a.m.
 - ☐ C. 12:30 a.m.
 - ☐ D. 9:10 a.m.

Comprehension:

Read the passage carefully and answer the questions given below.

Climate change is frequently described as the defining environmental challenge of the twenty-first century, yet it is equally an economic, political, and social issue. Rising global temperatures have intensified extreme weather events, disrupted agricultural productivity, accelerated biodiversity loss, and increased the frequency of climate-induced displacement. Although scientific evidence overwhelmingly attributes these changes to anthropogenic greenhouse gas emissions, the proposed solutions remain contested. Developed nations often advocate rapid decarbonization, whereas developing countries argue that strict emission targets may hinder economic growth and poverty alleviation. Consequently, international climate negotiations have become increasingly complex, reflecting competing national priorities rather than a unified global vision. Technological innovations such as renewable energy, carbon capture, and sustainable agriculture undoubtedly offer promising avenues for mitigation. However, technological advancement alone cannot resolve the crisis without corresponding institutional reforms and behavioural change. Public policies that encourage energy efficiency, sustainable urban planning, and environmental education are equally indispensable. Furthermore, climate adaptation has emerged as an urgent priority, particularly for vulnerable communities that contribute least to global emissions yet bear a disproportionate share of environmental consequences. The climate crisis therefore demands not merely scientific innovation, but also international cooperation founded upon principles of equity and shared responsibility. Ultimately, long-term environmental sustainability depends on balancing economic development with ecological preservation, recognizing that environmental degradation transcends political borders and that delayed action will impose far greater economic and humanitarian costs than timely intervention.

SubQuestion No : 66

Q.66 According to the passage, vulnerable communities are particularly affected because they:

- Ans**
- ☒ A. Experience severe climate impacts despite contributing relatively little to global emissions.
 - ☐ B. Produce the largest share of greenhouse gas emissions.
 - ☐ C. Refuse to adopt sustainable technologies.
 - ☐ D. Oppose international climate agreements.

Comprehension:

Read the passage carefully and answer the questions given below.

Climate change is frequently described as the defining environmental challenge of the twenty-first century, yet it is equally an economic, political, and social issue. Rising global temperatures have intensified extreme weather events, disrupted agricultural productivity, accelerated biodiversity loss, and increased the frequency of climate-induced displacement. Although scientific evidence overwhelmingly attributes these changes to anthropogenic greenhouse gas emissions, the proposed solutions remain contested. Developed nations often advocate rapid decarbonization, whereas developing countries argue that strict emission targets may hinder economic growth and poverty alleviation. Consequently, international climate negotiations have become increasingly complex, reflecting competing national priorities rather than a unified global vision. Technological innovations such as renewable energy, carbon capture, and sustainable agriculture undoubtedly offer promising avenues for mitigation. However, technological advancement alone cannot resolve the crisis without corresponding institutional reforms and behavioural change. Public policies that encourage energy efficiency, sustainable urban planning, and environmental education are equally indispensable. Furthermore, climate adaptation has emerged as an urgent priority, particularly for vulnerable communities that contribute least to global emissions yet bear a disproportionate share of environmental consequences. The climate crisis therefore demands not merely scientific innovation, but also international cooperation founded upon principles of equity and shared responsibility. Ultimately, long-term environmental sustainability depends on balancing economic development with ecological preservation, recognizing that environmental degradation transcends political borders and that delayed action will impose far greater economic and humanitarian costs than timely intervention.

SubQuestion No : 67

Q.67 Which of the following is the most appropriate title for the passage?

- Ans**
- ☒ A. Global Warming and Weather Forecasting
 - ☒ B. Renewable Energy: The Future of Development
 - ☒ C. Climate Change: Beyond an Environmental Crisis
 - ☒ D. The Economic Growth of Developing Nations

Comprehension:

Read the passage carefully and answer the questions given below.

Climate change is frequently described as the defining environmental challenge of the twenty-first century, yet it is equally an economic, political, and social issue. Rising global temperatures have intensified extreme weather events, disrupted agricultural productivity, accelerated biodiversity loss, and increased the frequency of climate-induced displacement. Although scientific evidence overwhelmingly attributes these changes to anthropogenic greenhouse gas emissions, the proposed solutions remain contested. Developed nations often advocate rapid decarbonization, whereas developing countries argue that strict emission targets may hinder economic growth and poverty alleviation. Consequently, international climate negotiations have become increasingly complex, reflecting competing national priorities rather than a unified global vision. Technological innovations such as renewable energy, carbon capture, and sustainable agriculture undoubtedly offer promising avenues for mitigation. However, technological advancement alone cannot resolve the crisis without corresponding institutional reforms and behavioural change. Public policies that encourage energy efficiency, sustainable urban planning, and environmental education are equally indispensable. Furthermore, climate adaptation has emerged as an urgent priority, particularly for vulnerable communities that contribute least to global emissions yet bear a disproportionate share of environmental consequences. The climate crisis therefore demands not merely scientific innovation, but also international cooperation founded upon principles of equity and shared responsibility. Ultimately, long-term environmental sustainability depends on balancing economic development with ecological preservation, recognizing that environmental degradation transcends political borders and that delayed action will impose far greater economic and humanitarian costs than timely intervention.

SubQuestion No : 68

Q.68 What is the central theme of the passage?

- Ans**
- ☒ A. Developing nations should not participate in climate agreements.
 - ☒ B. Climate change requires coordinated technological, political, and social responses.
 - ☒ C. Renewable energy alone can solve climate change.
 - ☒ D. Scientific evidence regarding climate change remains inconclusive.

Comprehension:

Read the passage carefully and answer the questions given below.

Climate change is frequently described as the defining environmental challenge of the twenty-first century, yet it is equally an economic, political, and social issue. Rising global temperatures have intensified extreme weather events, disrupted agricultural productivity, accelerated biodiversity loss, and increased the frequency of climate-induced displacement. Although scientific evidence overwhelmingly attributes these changes to anthropogenic greenhouse gas emissions, the proposed solutions remain contested. Developed nations often advocate rapid decarbonization, whereas developing countries argue that strict emission targets may hinder economic growth and poverty alleviation. Consequently, international climate negotiations have become increasingly complex, reflecting competing national priorities rather than a unified global vision. Technological innovations such as renewable energy, carbon capture, and sustainable agriculture undoubtedly offer promising avenues for mitigation. However, technological advancement alone cannot resolve the crisis without corresponding institutional reforms and behavioural change. Public policies that encourage energy efficiency, sustainable urban planning, and environmental education are equally indispensable. Furthermore, climate adaptation has emerged as an urgent priority, particularly for vulnerable communities that contribute least to global emissions yet bear a disproportionate share of environmental consequences. The climate crisis therefore demands not merely scientific innovation, but also international cooperation founded upon principles of equity and shared responsibility. Ultimately, long-term environmental sustainability depends on balancing economic development with ecological preservation, recognizing that environmental degradation transcends political borders and that delayed action will impose far greater economic and humanitarian costs than timely intervention.

SubQuestion No : 69

Q.69 The tone of the passage is best described as:

- Ans**
- ☐ A. Humorous and ironic
 - ☐ B. Emotional and pessimistic
 - ☒ C. Objective and analytical
 - ☐ D. Critical and sarcastic

Comprehension:

Read the passage carefully and answer the questions given below.

Climate change is frequently described as the defining environmental challenge of the twenty-first century, yet it is equally an economic, political, and social issue. Rising global temperatures have intensified extreme weather events, disrupted agricultural productivity, accelerated biodiversity loss, and increased the frequency of climate-induced displacement. Although scientific evidence overwhelmingly attributes these changes to anthropogenic greenhouse gas emissions, the proposed solutions remain contested. Developed nations often advocate rapid decarbonization, whereas developing countries argue that strict emission targets may hinder economic growth and poverty alleviation. Consequently, international climate negotiations have become increasingly complex, reflecting competing national priorities rather than a unified global vision. Technological innovations such as renewable energy, carbon capture, and sustainable agriculture undoubtedly offer promising avenues for mitigation. However, technological advancement alone cannot resolve the crisis without corresponding institutional reforms and behavioural change. Public policies that encourage energy efficiency, sustainable urban planning, and environmental education are equally indispensable. Furthermore, climate adaptation has emerged as an urgent priority, particularly for vulnerable communities that contribute least to global emissions yet bear a disproportionate share of environmental consequences. The climate crisis therefore demands not merely scientific innovation, but also international cooperation founded upon principles of equity and shared responsibility. Ultimately, long-term environmental sustainability depends on balancing economic development with ecological preservation, recognizing that environmental degradation transcends political borders and that delayed action will impose far greater economic and humanitarian costs than timely intervention.

SubQuestion No : 70

Q.70 Which of the following can be inferred from the passage?

- Ans**
- ☐ A. Scientific innovation has completely solved environmental degradation.
 - ☐ B. Developed countries oppose renewable energy.
 - ☒ C. Climate negotiations are difficult because countries have differing developmental priorities.
 - ☐ D. Climate adaptation is no longer necessary.

Comprehension:

Read the passage carefully and answer the questions given below.

Artificial intelligence (AI) has emerged as one of the most transformative technologies of the twenty-first century, influencing sectors as diverse as healthcare, education, finance, transportation, and public administration. Its ability to process enormous volumes of data within seconds has significantly enhanced efficiency and enabled more informed decision-making. Nevertheless, technological progress has also introduced ethical dilemmas that cannot be ignored. AI systems are trained on historical datasets, and when these datasets contain social, economic, or cultural biases, the resulting algorithms may reproduce or even amplify existing inequalities. Consequently, automated decisions in areas such as recruitment, credit approval, policing, and healthcare may unintentionally discriminate against certain groups. Furthermore, the increasing dependence on AI has intensified concerns regarding privacy, surveillance, data ownership, and accountability, particularly when individuals are affected by decisions whose reasoning remains inaccessible. Despite these challenges, dismissing AI as inherently harmful would overlook its considerable benefits. AI-assisted diagnostic tools have improved the early detection of diseases, predictive models have enhanced disaster preparedness, and intelligent systems have optimized resource management in agriculture and energy. The real challenge, therefore, lies not in choosing between technological advancement and ethical responsibility but in reconciling the two through effective governance. Governments, industries, and academic institutions must work collaboratively to establish transparent regulatory frameworks that ensure fairness, explainability, and human oversight. Ultimately, the long-term success of artificial intelligence will depend less on computational sophistication than on society's ability to align innovation with democratic values, public trust, and the broader objective of promoting human well-being.

SubQuestion No : 71

Q.71 Which of the following is the most appropriate title for the passage?

- Ans**
- ☒ A. The Economic Benefits of Artificial Intelligence
 - ☒ B. Artificial Intelligence: Innovation, Ethics, and Responsible Governance
 - ☒ C. Why Artificial Intelligence Should Be Restricted
 - ☒ D. Artificial Intelligence and the Future of Computing

Comprehension:

Read the passage carefully and answer the questions given below.

Artificial intelligence (AI) has emerged as one of the most transformative technologies of the twenty-first century, influencing sectors as diverse as healthcare, education, finance, transportation, and public administration. Its ability to process enormous volumes of data within seconds has significantly enhanced efficiency and enabled more informed decision-making. Nevertheless, technological progress has also introduced ethical dilemmas that cannot be ignored. AI systems are trained on historical datasets, and when these datasets contain social, economic, or cultural biases, the resulting algorithms may reproduce or even amplify existing inequalities. Consequently, automated decisions in areas such as recruitment, credit approval, policing, and healthcare may unintentionally discriminate against certain groups. Furthermore, the increasing dependence on AI has intensified concerns regarding privacy, surveillance, data ownership, and accountability, particularly when individuals are affected by decisions whose reasoning remains inaccessible. Despite these challenges, dismissing AI as inherently harmful would overlook its considerable benefits. AI-assisted diagnostic tools have improved the early detection of diseases, predictive models have enhanced disaster preparedness, and intelligent systems have optimized resource management in agriculture and energy. The real challenge, therefore, lies not in choosing between technological advancement and ethical responsibility but in reconciling the two through effective governance. Governments, industries, and academic institutions must work collaboratively to establish transparent regulatory frameworks that ensure fairness, explainability, and human oversight. Ultimately, the long-term success of artificial intelligence will depend less on computational sophistication than on society's ability to align innovation with democratic values, public trust, and the broader objective of promoting human well-being.

SubQuestion No : 72

Q.72 What is the central theme of the passage?

- Ans**
- ☒ A. AI has failed to improve public services and to address ethical questions.
 - ☒ B. The benefits of AI outweigh every possible risk and its solution.
 - ☒ C. The responsible use of AI requires balancing technological innovation with ethical oversight.
 - ☒ D. Artificial intelligence should replace human decision-making wherever possible.

Comprehension:

Read the passage carefully and answer the questions given below.

Artificial intelligence (AI) has emerged as one of the most transformative technologies of the twenty-first century, influencing sectors as diverse as healthcare, education, finance, transportation, and public administration. Its ability to process enormous volumes of data within seconds has significantly enhanced efficiency and enabled more informed decision-making. Nevertheless, technological progress has also introduced ethical dilemmas that cannot be ignored. AI systems are trained on historical datasets, and when these datasets contain social, economic, or cultural biases, the resulting algorithms may reproduce or even amplify existing inequalities. Consequently, automated decisions in areas such as recruitment, credit approval, policing, and healthcare may unintentionally discriminate against certain groups. Furthermore, the increasing dependence on AI has intensified concerns regarding privacy, surveillance, data ownership, and accountability, particularly when individuals are affected by decisions whose reasoning remains inaccessible. Despite these challenges, dismissing AI as inherently harmful would overlook its considerable benefits. AI-assisted diagnostic tools have improved the early detection of diseases, predictive models have enhanced disaster preparedness, and intelligent systems have optimized resource management in agriculture and energy. The real challenge, therefore, lies not in choosing between technological advancement and ethical responsibility but in reconciling the two through effective governance. Governments, industries, and academic institutions must work collaboratively to establish transparent regulatory frameworks that ensure fairness, explainability, and human oversight. Ultimately, the long-term success of artificial intelligence will depend less on computational sophistication than on society's ability to align innovation with democratic values, public trust, and the broader objective of promoting human well-being.

SubQuestion No : 73

Q.73 The tone of the passage is best described as:

- Ans** ☒ A. Optimistic and Emotional
 ☒ B. Objective and Analytical
 ☒ C. Pessimistic and Alarmist
 ☒ D. Critical and Sarcastic

Comprehension:

Read the passage carefully and answer the questions given below.

Artificial intelligence (AI) has emerged as one of the most transformative technologies of the twenty-first century, influencing sectors as diverse as healthcare, education, finance, transportation, and public administration. Its ability to process enormous volumes of data within seconds has significantly enhanced efficiency and enabled more informed decision-making. Nevertheless, technological progress has also introduced ethical dilemmas that cannot be ignored. AI systems are trained on historical datasets, and when these datasets contain social, economic, or cultural biases, the resulting algorithms may reproduce or even amplify existing inequalities. Consequently, automated decisions in areas such as recruitment, credit approval, policing, and healthcare may unintentionally discriminate against certain groups. Furthermore, the increasing dependence on AI has intensified concerns regarding privacy, surveillance, data ownership, and accountability, particularly when individuals are affected by decisions whose reasoning remains inaccessible. Despite these challenges, dismissing AI as inherently harmful would overlook its considerable benefits. AI-assisted diagnostic tools have improved the early detection of diseases, predictive models have enhanced disaster preparedness, and intelligent systems have optimized resource management in agriculture and energy. The real challenge, therefore, lies not in choosing between technological advancement and ethical responsibility but in reconciling the two through effective governance. Governments, industries, and academic institutions must work collaboratively to establish transparent regulatory frameworks that ensure fairness, explainability, and human oversight. Ultimately, the long-term success of artificial intelligence will depend less on computational sophistication than on society's ability to align innovation with democratic values, public trust, and the broader objective of promoting human well-being.

SubQuestion No : 74

Q.74 Which of the following can be inferred from the passage?

- Ans** ☒ A. Ethical concerns surrounding AI can be addressed solely through technological improvements.
 ☒ B. AI systems are incapable of making accurate decisions.
 ☒ C. Governments should completely prohibit the use of AI.
 ☒ D. Human oversight will continue to be important even as AI becomes more advanced.

Comprehension:

Read the passage carefully and answer the questions given below.

Artificial intelligence (AI) has emerged as one of the most transformative technologies of the twenty-first century, influencing sectors as diverse as healthcare, education, finance, transportation, and public administration. Its ability to process enormous volumes of data within seconds has significantly enhanced efficiency and enabled more informed decision-making. Nevertheless, technological progress has also introduced ethical dilemmas that cannot be ignored. AI systems are trained on historical datasets, and when these datasets contain social, economic, or cultural biases, the resulting algorithms may reproduce or even amplify existing inequalities. Consequently, automated decisions in areas such as recruitment, credit approval, policing, and healthcare may unintentionally discriminate against certain groups. Furthermore, the increasing dependence on AI has intensified concerns regarding privacy, surveillance, data ownership, and accountability, particularly when individuals are affected by decisions whose reasoning remains inaccessible. Despite these challenges, dismissing AI as inherently harmful would overlook its considerable benefits. AI-assisted diagnostic tools have improved the early detection of diseases, predictive models have enhanced disaster preparedness, and intelligent systems have optimized resource management in agriculture and energy. The real challenge, therefore, lies not in choosing between technological advancement and ethical responsibility but in reconciling the two through effective governance. Governments, industries, and academic institutions must work collaboratively to establish transparent regulatory frameworks that ensure fairness, explainability, and human oversight. Ultimately, the long-term success of artificial intelligence will depend less on computational sophistication than on society's ability to align innovation with democratic values, public trust, and the broader objective of promoting human well-being.

SubQuestion No : 75

Q.75 According to the passage, AI algorithms may reinforce existing inequalities primarily because they:

- Ans**
- ☐ A. Operate too slowly to analyse information effectively.
 - ☐ B. Function without collecting any data.
 - ☐ C. Are intentionally designed to discriminate against users..
 - ☒ D. Depend on historical datasets that may contain biases.

Comprehension:

Read the following passage and answer the questions given below.

In popular accounts of success, achievement is often portrayed as the result of exceptional talent. Stories of accomplished athletes, entrepreneurs, and artists frequently emphasize natural ability, creating the impression that excellence is largely predetermined. While talent can undoubtedly provide an advantage, an increasing body of research suggests that long-term success depends at least as much on persistence, deliberate practice, and the capacity to learn from failure.

Individuals who attain high levels of performance rarely progress through uninterrupted success. Instead, they often encounter setbacks that reveal weaknesses and expose limitations. These experiences, though uncomfortable, can provide valuable feedback. By identifying areas that require improvement, failure may serve as a catalyst for growth rather than merely a sign of inadequacy. Consequently, some psychologists argue that resilience—the ability to recover and adapt following difficulties—is a more reliable predictor of achievement than initial talent alone.

Critics caution against overstating the role of perseverance. They note that social conditions, educational opportunities, and access to resources significantly influence outcomes. A determined individual may still face barriers that effort alone cannot overcome. Ignoring such constraints risks attributing success entirely to personal qualities while overlooking structural inequalities.

Nevertheless, acknowledging external factors does not diminish the importance of resilience. Rather, it suggests that achievement emerges from the interaction of individual effort and environmental conditions. The most productive perspective may therefore be neither the belief that talent guarantees success nor the assumption that persistence conquers every obstacle. Instead, progress is best understood as a process that combines ability, effort, opportunity, and adaptation.

SubQuestion No : 76

Q.76 Which of the following is the closest synonym of the word 'perseverance'?

- Ans**
- ☐ A. Versatility
 - ☒ B. Tenacity
 - ☐ C. Dexterity
 - ☐ D. Prudence

Comprehension:

Read the following passage and answer the questions given below.

In popular accounts of success, achievement is often portrayed as the result of exceptional talent. Stories of accomplished athletes, entrepreneurs, and artists frequently emphasize natural ability, creating the impression that excellence is largely predetermined. While talent can undoubtedly provide an advantage, an increasing body of research suggests that long-term success depends at least as much on persistence, deliberate practice, and the capacity to learn from failure. Individuals who attain high levels of performance rarely progress through uninterrupted success. Instead, they often encounter setbacks that reveal weaknesses and expose limitations. These experiences, though uncomfortable, can provide valuable feedback. By identifying areas that require improvement, failure may serve as a catalyst for growth rather than merely a sign of inadequacy. Consequently, some psychologists argue that resilience—the ability to recover and adapt following difficulties—is a more reliable predictor of achievement than initial talent alone. Critics caution against overstating the role of perseverance. They note that social conditions, educational opportunities, and access to resources significantly influence outcomes. A determined individual may still face barriers that effort alone cannot overcome. Ignoring such constraints risks attributing success entirely to personal qualities while overlooking structural inequalities. Nevertheless, acknowledging external factors does not diminish the importance of resilience. Rather, it suggests that achievement emerges from the interaction of individual effort and environmental conditions. The most productive perspective may therefore be neither the belief that talent guarantees success nor the assumption that persistence conquers every obstacle. Instead, progress is best understood as a process that combines ability, effort, opportunity, and adaptation.

SubQuestion No : 77

Q.77 The tone of the passage is best described as:

- Ans** ☒ A. reflective and balanced.
☐ B. urgent and confrontational.
☐ C. enthusiastic and celebratory.
☐ D. skeptical and dismissive.

Comprehension:

Read the following passage and answer the questions given below.

In popular accounts of success, achievement is often portrayed as the result of exceptional talent. Stories of accomplished athletes, entrepreneurs, and artists frequently emphasize natural ability, creating the impression that excellence is largely predetermined. While talent can undoubtedly provide an advantage, an increasing body of research suggests that long-term success depends at least as much on persistence, deliberate practice, and the capacity to learn from failure. Individuals who attain high levels of performance rarely progress through uninterrupted success. Instead, they often encounter setbacks that reveal weaknesses and expose limitations. These experiences, though uncomfortable, can provide valuable feedback. By identifying areas that require improvement, failure may serve as a catalyst for growth rather than merely a sign of inadequacy. Consequently, some psychologists argue that resilience—the ability to recover and adapt following difficulties—is a more reliable predictor of achievement than initial talent alone. Critics caution against overstating the role of perseverance. They note that social conditions, educational opportunities, and access to resources significantly influence outcomes. A determined individual may still face barriers that effort alone cannot overcome. Ignoring such constraints risks attributing success entirely to personal qualities while overlooking structural inequalities. Nevertheless, acknowledging external factors does not diminish the importance of resilience. Rather, it suggests that achievement emerges from the interaction of individual effort and environmental conditions. The most productive perspective may therefore be neither the belief that talent guarantees success nor the assumption that persistence conquers every obstacle. Instead, progress is best understood as a process that combines ability, effort, opportunity, and adaptation.

SubQuestion No : 78

Q.78 Which inference is most strongly supported by the passage?

- Ans** ☐ A. Resilience develops automatically whenever people experience failure.
☐ B. Structural barriers can be eliminated through persistence alone.
☐ C. Individuals with exceptional talent rarely require deliberate practice.
☒ D. Success is unlikely to be explained adequately by a single factor.

Comprehension:

Read the following passage and answer the questions given below.

In popular accounts of success, achievement is often portrayed as the result of exceptional talent. Stories of accomplished athletes, entrepreneurs, and artists frequently emphasize natural ability, creating the impression that excellence is largely predetermined. While talent can undoubtedly provide an advantage, an increasing body of research suggests that long-term success depends at least as much on persistence, deliberate practice, and the capacity to learn from failure. Individuals who attain high levels of performance rarely progress through uninterrupted success. Instead, they often encounter setbacks that reveal weaknesses and expose limitations. These experiences, though uncomfortable, can provide valuable feedback. By identifying areas that require improvement, failure may serve as a catalyst for growth rather than merely a sign of inadequacy. Consequently, some psychologists argue that resilience—the ability to recover and adapt following difficulties—is a more reliable predictor of achievement than initial talent alone. Critics caution against overstating the role of perseverance. They note that social conditions, educational opportunities, and access to resources significantly influence outcomes. A determined individual may still face barriers that effort alone cannot overcome. Ignoring such constraints risks attributing success entirely to personal qualities while overlooking structural inequalities. Nevertheless, acknowledging external factors does not diminish the importance of resilience. Rather, it suggests that achievement emerges from the interaction of individual effort and environmental conditions. The most productive perspective may therefore be neither the belief that talent guarantees success nor the assumption that persistence conquers every obstacle. Instead, progress is best understood as a process that combines ability, effort, opportunity, and adaptation.

SubQuestion No : 79

Q.79 Which title best reflects the central argument of the passage?

- Ans**
- ☐ A. Achievement as the Result of Intelligence and Creativity
 - ☒ B. Achievement as the Product of Talent, Effort, and Opportunity
 - ☐ C. Achievement as the Outcome of Competition and Innovation
 - ☐ D. Achievement as the Consequence of Training and Discipline

Comprehension:

Read the following passage and answer the questions given below.

In popular accounts of success, achievement is often portrayed as the result of exceptional talent. Stories of accomplished athletes, entrepreneurs, and artists frequently emphasize natural ability, creating the impression that excellence is largely predetermined. While talent can undoubtedly provide an advantage, an increasing body of research suggests that long-term success depends at least as much on persistence, deliberate practice, and the capacity to learn from failure. Individuals who attain high levels of performance rarely progress through uninterrupted success. Instead, they often encounter setbacks that reveal weaknesses and expose limitations. These experiences, though uncomfortable, can provide valuable feedback. By identifying areas that require improvement, failure may serve as a catalyst for growth rather than merely a sign of inadequacy. Consequently, some psychologists argue that resilience—the ability to recover and adapt following difficulties—is a more reliable predictor of achievement than initial talent alone. Critics caution against overstating the role of perseverance. They note that social conditions, educational opportunities, and access to resources significantly influence outcomes. A determined individual may still face barriers that effort alone cannot overcome. Ignoring such constraints risks attributing success entirely to personal qualities while overlooking structural inequalities. Nevertheless, acknowledging external factors does not diminish the importance of resilience. Rather, it suggests that achievement emerges from the interaction of individual effort and environmental conditions. The most productive perspective may therefore be neither the belief that talent guarantees success nor the assumption that persistence conquers every obstacle. Instead, progress is best understood as a process that combines ability, effort, opportunity, and adaptation.

SubQuestion No : 80

Q.80 Which assumption underlies the author's concluding position?

- Ans**
- ☐ A. Individual effort is generally more important than social conditions.
 - ☐ B. Opportunity determines outcomes more strongly than resilience.
 - ☒ C. Human achievement is shaped by multiple interacting influences.
 - ☐ D. Talent can be measured accurately across all contexts.

Q.81 Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?

BBY 4, FEX -8, JHW 16, NKV -32, ?

- Ans**
- ☐ A. HKO 54
 - ☐ B. HJU 56
 - ☒ C. RNU 64
 - ☐ D. JHI 51

Q.82 Seven boxes, G, H, I, J, Q, R and S, are kept one over the other, but not necessarily in the same order. Only Q is kept above G. Only S is kept between G and R. Only H is kept below J. How many boxes are kept between I and H?

- Ans**
- ☒ A. Four
 - ☒ B. One
 - ☒ C. Two
 - ☒ D. Three

Q.83 Based on the English alphabetical order, three of the following four are alike in a certain way and thus form a group. Which is the one that does not belong to that group? (Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

- Ans**
- ☒ A. PTX
 - ☒ B. DHL
 - ☒ C. BFJ
 - ☒ D. EIK

Q.84 Dipesh ranked 14th from the top and 32nd from the bottom in his class. How many students are there in his class?

- Ans**
- ☒ A. 47
 - ☒ B. 44
 - ☒ C. 46
 - ☒ D. 45

Q.85 If 'A' stands for '÷', 'B' stands for 'x', 'C' stands for '+' and 'D' stands for '-', what will come in place of question mark '?' in the following equation?
40 D 68 A 4 C 9 B 3 = ?

- Ans**
- ☒ A. 55
 - ☒ B. 40
 - ☒ C. 50
 - ☒ D. 45

Q.86 TXGI is related to JNWY in a certain way based on the English alphabetical order. In the same way, FJSU is related to VZIK. To which of the following options is BFOQ related, following the same logic?

- Ans**
- ☒ A. RVGY
 - ☒ B. RVEG
 - ☒ C. REDS
 - ☒ D. RGVE

Q.87 Based on the English alphabetical order, three of the following four are alike in a certain way and thus form a group. Which is the one that does not belong to that group? (Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster.)

- Ans**
- ☒ A. HLF
 - ☒ B. JNI
 - ☒ C. NRM
 - ☒ D. LPK

Q.88 Eight people are sitting in two parallel rows containing 4 people each in such a way that there is equal distance between adjacent persons.
 In row 1 – E, F, G and H are seated and all of them are facing south.
 In row 2 – P, Q, R and S are seated and all of them are facing north.
 Thus each person faces another person from the other row.
 E sits third to the right of H. The one facing P is an immediate neighbour of H. The one facing F is an immediate neighbour of P. The one facing E is an immediate neighbour of S. R sits at someplace to the left of Q. Who faces Q?

- Ans**
- ☒ A. F
 - ☒ B. H
 - ☒ C. G
 - ☒ D. E

Q.89 Six friends E, F, G, H, W and X live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it, number 2 and so on till the topmost floor is numbered 6. Only H lives below E. Only F lives above G. X lives immediately below G. How many people live above W?

- Ans**
- ☒ A. One
 - ☒ B. Two
 - ☒ C. Four
 - ☒ D. Three

Q.90 Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which is the one that does not belong to that group? (Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

- Ans**
- ☒ A. MN-PQ
 - ☒ B. DE-GH
 - ☒ C. RS-UV
 - ☒ D. TU-XY

Q.91 If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 7635814, what will be the difference between the highest and lowest digits in the new number thus formed?

- Ans**
- ☒ A. 4
 - ☒ B. 5
 - ☒ C. 6
 - ☒ D. 7

Q.92 In a certain code language, 'FROM' is coded as '9618' and 'FOAM' is coded as '6138'. What is the code for 'R' in the given code language?

- Ans**
- ☒ A. 6
 - ☒ B. 9
 - ☒ C. 1
 - ☒ D. 8

Q.93 FXHF is related to ATED in a certain way based on the English alphabetical order. In the same way, VPBB is related to QLYZ. To which of the following is LHVX related, following the same logic?

- Ans**
- ☒ A. FDRV
 - ☒ B. HETU
 - ☒ C. GDSV
 - ☒ D. FCSW

Q.94 Eight people are sitting in two parallel rows containing 4 people each in such a way that there is equal distance between adjacent persons.
 In row 1, A, D, G and F are seated and all of them are facing south.
 In row 2, P, R, N and Z are seated and all of them are facing north.
 Thus, each person faces another person from the other row.
 Z sits third to the left of R. The one facing F is an immediate neighbour of R. A sits at some place to the right of F and is not facing P. D sits third to the right of G. Who amongst the following faces N?

- Ans**
- ☒ A. A
 - ☐ B. P
 - ☐ C. Z
 - ☐ D. G

Q.95 Select the pair which follows the same pattern as that followed by the two pairs given below. Both pairs follow the same pattern.
 TWA–WZD
 WZD–ZCG

- Ans**
- ☒ A. GJN–JMQ
 - ☐ B. GIL–ILP
 - ☐ C. GJN–IMP
 - ☐ D. GIL–JMQ

Q.96 If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 5831247, how many digits will appear more than once in the new number thus formed?

- Ans**
- ☐ A. Three
 - ☐ B. None
 - ☒ C. Two
 - ☐ D. One

Q.97 What should come in place of the question mark (?) in the given series?

512, 633, 533, 614, 550, 599, ?

- Ans**
- ☒ A. 563
 - ☐ B. 541
 - ☐ C. 572
 - ☐ D. 554

Q.98 In the following series, only one letter cluster is wrong. Find out the wrong letter cluster.
 PWD NUH LSL JQP HOT FMY

- Ans**
- ☐ A. JQP
 - ☒ B. FMY
 - ☐ C. LSL
 - ☐ D. HOT

Q.99 What will come in place of the '?' in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?
 $75 \div 5 + 10 \times 2 - 6 = ?$

- Ans**
- ☐ A. 348
 - ☐ B. 346
 - ☐ C. 356
 - ☒ D. 376

Q.100 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, a 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 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.)
 $7 - 21 - 42 - 142$;
 $9 - 27 - 54 - 154$.

- Ans**
- ✓ A. $4 - 12 - 24 - 124$
 - ✗ B. $3 - 6 - 12 - 112$
 - ✗ C. $1 - 3 - 9 - 109$
 - ✗ D. $12 - 36 - 72 - 272$



रेलवे भर्ती बोर्ड / RAILWAY RECRUITMENT BOARD
सी ई एन - ०३/२०२६ - CEN - 03/2026
सेक्शन कंट्रोलर की भर्ती / Recruitment of Section Controller



Test Date	12/10/2026
Test Time	2:00 PM - 4:00 PM
Subject	RRB SECTION CONTROLLER CBT 1

*** Note**

Correct Answer will carry 1 mark per Question.

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

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

2. Chosen option on the right of the question indicates the option selected by the candidate.

Section : RRB SECTION CONTROLLER CBT 1

Q.1 A researcher collects data on the number of books read by a group of people in a year: 10, 15, 12, 18, 20, 17, 13, 19, 16, 25. Find the arithmetic mean of the number of books read.

- Ans**
- ☒ A. 16
 - ☒ B. 17
 - ☒ C. 17.5
 - ☒ D. 16.5

Q.2 In what ratio must a grocer mix two varieties of rice worth ₹91 per kg and ₹147 per kg so that if he sells the mixture at ₹150 per kg he may gain 25%?

- Ans**
- ☒ A. 27:29
 - ☒ B. 26:27
 - ☒ C. 22:25
 - ☒ D. 12:7

Q.3 A can do a piece of work in 84 hours; B and C together can do it in 42 hours, while A and C together can do it in 36 hours. How long (in hours) will B alone take to do it?

- Ans**
- ☒ A. 126
 - ☒ B. 128
 - ☒ C. 127
 - ☒ D. 125

- Q.4** Consider the following table showing the cost (in ₹) of raw materials purchased by a company over four months:

Month	Steel (₹)	Copper (₹)	Plastic (₹)
January	8,000	5,000	3,000
February	8,500	5,200	3,300
March	8,200	5,100	3,500
April	8,800	5,400	3,600

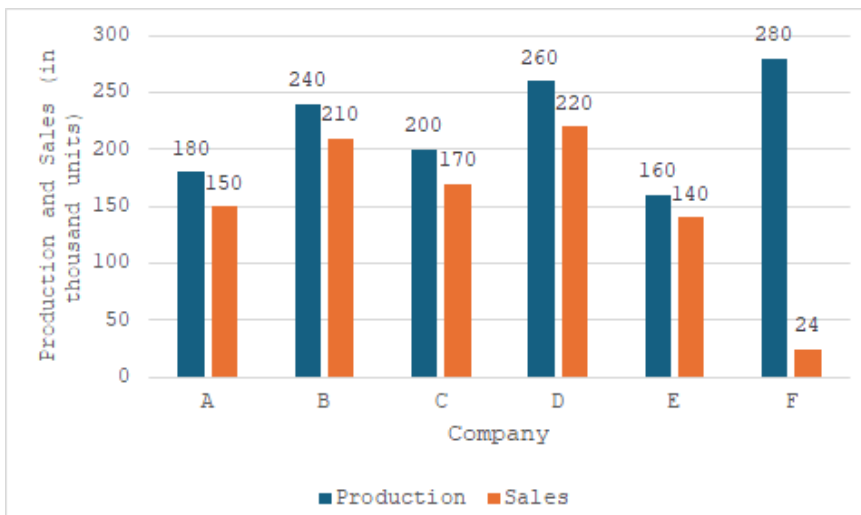
If the company aims to reduce its monthly raw material expenditure by 10% in May compared to the highest spending month, what is the maximum amount (in ₹) it should spend in May?

- Ans**
- ☒ A. ₹17,600
 - ☒ B. ₹15,840
 - ☒ C. ₹16,020
 - ☒ D. ₹16,200

- Q.5** A car travels at a speed that varies directly with the square root of the fuel efficiency (km/litre). If the speed is 60 km/h when the efficiency is 16 km/litre, what will be the speed when the efficiency increases to 25 km/litre?

- Ans**
- ☒ A. 90
 - ☒ B. 65
 - ☒ C. 80
 - ☒ D. 75

- Q.6** The multiple bar graph given below shows the Production and Sales (in thousand units) of six manufacturing companies (A–F) during the financial year 2025–26.



Additional Information

The difference between production and sales represents the unsold inventory.

The cost of production is ₹80 per unit.

The selling price is ₹120 per unit.

Unsold inventory is valued at 60% of its production cost.

Company D received a government subsidy of ₹4 lakh.

Company E incurred a storage cost of ₹2lakh due to excess inventory.

Company F paid 12% tax on its gross profit.

After considering the value of unsold inventory, subsidy, storage cost, and tax, which of the following statements is correct?

- Ans**
- ☒ A. Company B earned a lower net gain than Company F.
 - ☒ B. Company D's net gain exceeded that of Company B by more than ₹3 lakh.
 - ☒ C. The combined net gain of Companies A and E was less than that of Company D.
 - ☒ D. Company F earned the highest net gain.

Q.7 In triangle XYZ, the medians from X and Y intersect at point G. If the area of triangle XYZ is 54 square units, what is the area (in square units) of triangle XGY?

- Ans
- ☐ A. 9
 - ☐ B. 12
 - ☐ C. 36
 - ☒ D. 18

Q.8 Evaluate $18 + 36 \div [2(5 + 4)] - 7$.

- Ans
- ☐ A. 14
 - ☐ B. 12
 - ☒ C. 13
 - ☐ D. 15

Q.9 Find the median of 3, 5, 7, 9, 11, 13, 15.

- Ans
- ☐ A. 11
 - ☐ B. 8
 - ☒ C. 9
 - ☐ D. 10

Q.10 A dress has a marked price of ₹750. After a discount, the price paid is ₹675. What was the percentage discount given?

- Ans
- ☐ A. 15%
 - ☒ B. 10%
 - ☐ C. 8%
 - ☐ D. 12%

Q.11 A can run at 10 m/s and B at 8 m/s. In a 300 m race, how much head start should B be given so that both finish together?

- Ans
- ☐ A. 50 m
 - ☒ B. 60 m
 - ☐ C. 70 m
 - ☐ D. 80 m

Q.12 If the first term of an arithmetic progression is 12, and the sum of the first 12 terms is equal to one-fourth of the sum of the next 12 terms, find the sum of first 36 terms.

- Ans
- ☐ A. -4314
 - ☐ B. -5024
 - ☒ C. -4608
 - ☐ D. -4816

Q.13 The sum of the cubes of the first n natural numbers is 3025. What is the value of n?

- Ans
- ☐ A. 11
 - ☐ B. 8
 - ☐ C. 9
 - ☒ D. 10

Q.14 A solid iron cube of side 14 cm is melted and recast into a cylindrical rod of radius 3.5 cm. Find the length (height) of the cylindrical rod. (Use $\pi = \frac{22}{7}$)

- Ans
- ☐ A. 54 cm
 - ☐ B. 68 cm
 - ☐ C. $\frac{24}{7}$ cm
 - ☒ D. $\frac{784}{11}$ cm

Q.15 A manufacturer fixes his selling price at 70% over the cost of production. If the cost of production goes up by 60%, and the manufacturer raises his selling price by 60%, find the profit percentage.

- Ans
- ☐ A. 69%
 - ☐ B. 73%
 - ☐ C. 72%
 - ☒ D. 70%

Q.16 A card is drawn at random from a well-shuffled standard deck of 52 playing cards. If it is known that the card drawn is a face card or a red card, what is the probability that it is a King?

- Ans
- ☐ A. $\frac{1}{7}$
 - ☒ B. $\frac{1}{8}$
 - ☐ C. $\frac{1}{5}$
 - ☐ D. $\frac{2}{5}$

Q.17 A merchant sells an item at a 15% profit. If the cost price increases by 10% and the selling price remains the same, what will be his new approximate profit percentage?

- Ans
- ☐ A. 10%
 - ☒ B. 4.55%
 - ☐ C. 0%
 - ☐ D. 5.25%

Q.18 A cyclist covers 90 km in 3 hours. If he maintains the same speed, how long will he take to cover 150 km?

- Ans
- ☒ A. 5 hours
 - ☐ B. 8 hours
 - ☐ C. 4 hours
 - ☐ D. 6 hours

Q.19 The LCM and the HCF of two numbers are 6615 and 21, respectively. If sum of the two numbers is 1428, then find the sum of the reciprocals of the two numbers.

- Ans
- ☐ A. $\frac{73}{6615}$
 - ☒ B. $\frac{68}{6615}$
 - ☐ C. $\frac{66}{6615}$
 - ☐ D. $\frac{1427}{6615}$

- Q.20** Kanchan's salary is ₹20,000 per month. He spends ₹5,000 on house rent, ₹1,500 on bills and the rest of the amount is his monthly savings. Find his savings in a year, if in the month of his birthday he spent his complete monthly saving for birthday celebration.
- Ans** ☒ A. ₹1,35,000
☒ B. ₹1,62,000
☒ C. ₹1,48,500
☒ D. ₹1,21,500
- Q.21** The sum of Naina's present age and 3 times Bhawna's present age is 60 years. Naina's father is presently 2 times as old as Naina. Bhawna's brother's present age is 4 years more than Bhawna's present age. The sum of the present ages of Naina's father and Bhawna's brother is 64 years. What is the sum of the present ages (in years) of Bhawna and Naina?
- Ans** ☒ A. 34
☒ B. 36
☒ C. 33
☒ D. 30
- Q.22** The average of 12 numbers is 108. If the first 7 numbers are 40, 33, 43, 88, 103, 79 and 15, then what will be the average of the remaining numbers?
- Ans** ☒ A. 174
☒ B. 179
☒ C. 184
☒ D. 188
- Q.23** The LCM of the numbers 9, 45 and 75 is:
- Ans** ☒ A. 325
☒ B. 450
☒ C. 125
☒ D. 225
- Q.24** A dealer marks an article 50% above its cost price. He then offers two successive discounts of 20% and 15% on the marked price and still makes a profit of ₹255. What is the cost price of the article?
- Ans** ☒ A. ₹10,500
☒ B. ₹12,750
☒ C. ₹11,250
☒ D. ₹13,500
- Q.25** A solution is made by mixing alcohol and water in the ratio 5 : 3. If 16 liters of the solution is taken out and replaced with pure water, and the new ratio becomes 1 : 1, how many liters of alcohol were present in the original solution?
- Ans** ☒ A. 50 liters
☒ B. 30 liters
☒ C. 45 liters
☒ D. 36 liters
- Q.26** The odometer of a car reads 12060 km at the start of a trip and 12600 km at its end. If the trip took 5 hours, then the average speed of car (in m/sec) is:
- Ans** ☒ A. 25
☒ B. 38
☒ C. 35
☒ D. 30

Q.27 In an arithmetic progression, the 7th term is chosen for a temperature control process involving sequential sensor readings. If the first reading is 18 degrees and each subsequent reading increases by 2.5 degrees, what is the value of the 7th sensor reading?

- Ans**
- ☐ A. 31 degrees
 - ☐ B. 40.5 degrees
 - ☐ C. 35.5 degrees
 - ☒ D. 33 degrees

Q.28 Given the system of equations is $3x + 2y + z = 19$, $x + 3y + 2z = 18$, and $2x + y + 3z = 17$, what is the value of $x + y + z$?

- Ans**
- ☐ A. 8
 - ☐ B. 7
 - ☐ C. 5
 - ☒ D. 9

Q.29 Two numbers are in the ratio 4 : 9. If the smaller number is increased by 8, the new ratio becomes 2 : 3. What is the original smaller number?

- Ans**
- ☐ A. 24
 - ☒ B. 16
 - ☐ C. 20
 - ☐ D. 12

Q.30 If $x = 2^5 \cdot 3^3 \cdot 5^2$ and $y = 2^3 \cdot 3^5 \cdot 5^1$

then the value of $\frac{x^2 \cdot y^3}{2^{19} \cdot 3^{20} \cdot 5^7}$

- Ans**
- ☐ A. 2
 - ☐ B. 5
 - ☒ C. 3
 - ☐ D. 6

Q.31 A shopkeeper claims that he sells rock salt at ₹14 per kg, which costs him ₹40 per kg. But he gives 517 g instead of 1551 g. What is his percentage profit or loss?

- Ans**
- ☐ A. Loss of 4%
 - ☐ B. Profit of 6%
 - ☒ C. Profit of 5%
 - ☐ D. Loss of 2%

Q.32 The smallest number that should be multiplied by 75 to make it a perfect square is:

- Ans**
- ☐ A. 5
 - ☐ B. 2
 - ☐ C. 15
 - ☒ D. 3

Q.33 If 10% of $x = 264$, then x is equal to:

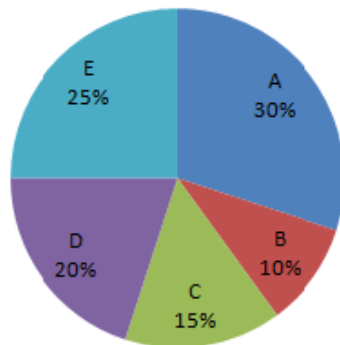
- Ans**
- ☒ A. 2640
 - ☐ B. 5380
 - ☐ C. 5280
 - ☐ D. 2740

Q.34 A storage box has a length that is twice its width and a height of 4 meters. If the total area of its four walls is 96 square meters, what is the volume of the box?

- Ans**
- ☒ A. 144 m^3
 - ☒ B. 192 m^3
 - ☒ C. 160 m^3
 - ☒ D. 128 m^3

Q.35 The pie chart below shows the export of different fruits from India in a particular year.

Export of different fruits



If a total of 1500 quintals of fruits were exported in the year, find the difference (in quintals) between the exports of B and E.

- Ans**
- ☒ A. 450
 - ☒ B. 150
 - ☒ C. 375
 - ☒ D. 225

Q.36 A and B start a cafe with a capital of ₹4,400 and ₹4,400, respectively. After a year, out of the profit of ₹3,400, A gets his share of profit plus some money as his salary. In total, if A gets ₹4,700, what is the salary amount (in ₹) he received?

- Ans**
- ☒ A. 2,998
 - ☒ B. 3,002
 - ☒ C. 3,000
 - ☒ D. 2,999

Q.37 Three shop owners Anil, Bhanu and Charan do business in stationary items. One day, Anil sold one dozen pens and one dozen erasers, and purchased one dozen pencils. On the same day, Bhanu sold six dozen pens, four dozen pencils and five dozen erasers, whereas Charan sold five dozen pens and two dozen erasers and purchased two dozen pencils. The total transaction of these three people for that day on these items was, respectively, ₹200, ₹3,100 and ₹1,300. Find the cost of one pen.

- Ans**
- ☒ A. ₹10
 - ☒ B. ₹30
 - ☒ C. ₹20
 - ☒ D. ₹25

Q.38 A table displays the number of cars sold by four dealerships (A, B, C, D) over four quarters.

Dealership	Q1	Q2	Q3	Q4
A	120	135	140	110
B	130	125	120	115
C	140	145	150	135
D	110	120	115	125

Which dealership had the highest average sales per quarter?

- Ans
- ☒ A. A
 - ☒ B. C
 - ☒ C. D
 - ☒ D. B

Q.39 Find the sum of all natural numbers that are less than 20 and coprime to 2.

- Ans
- ☒ A. 92
 - ☒ B. 120
 - ☒ C. 110
 - ☒ D. 100

Q.40 If the average of 5 numbers is 20 and each number is increased by 2, what will be the new average?

- Ans
- ☒ A. 20
 - ☒ B. 22
 - ☒ C. 24
 - ☒ D. 18

Q.41 If the sum of natural numbers from 1 to m is 990, which value does m represent?

- Ans
- ☒ A. 44
 - ☒ B. 40
 - ☒ C. 50
 - ☒ D. 45

Q.42 In a circle of radius 10 cm, a chord is drawn perpendicular to the radius. If the distance from the centre to the chord is 6 cm, what is the length of the chord?

- Ans
- ☒ A. 6 cm
 - ☒ B. 8 cm
 - ☒ C. 12 cm
 - ☒ D. 16 cm

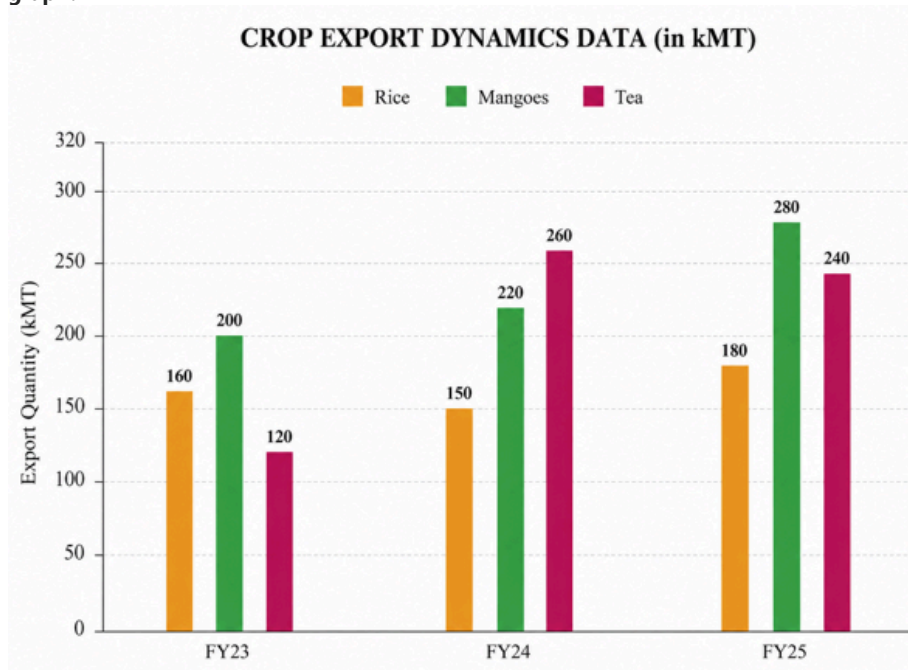
Q.43 A circle of radius 6 cm is inscribed in a rhombus with one diagonal of length 20 cm. What is the perimeter of the rhombus?

- Ans
- ☒ A. 52 cm
 - ☒ B. 50 cm
 - ☒ C. 44 cm
 - ☒ D. 48 cm

Q.44 Three coins are tossed. What is the probability that at least one coin shows tails?

- Ans
- ☒ A. 0.875
 - ☒ B. 0.5
 - ☒ C. 0.75
 - ☒ D. 0.625

Q.45 The graph below shows the export volumes of Rice, Mangoes, and Tea across three fiscal years. Which of the options below best summarizes the performance trend shown in the graph?



- Ans**
- ☒ A. The total export volume of all three crops combined increased by exactly 100 kMT from FY24 to FY25.
 - ☒ B. Mangoes were the only crop to show a consistent increase in export volume across all three fiscal years.
 - ☒ C. The export volume of Tea decreased by 20 kMT from FY24 to FY25, contributing to a total export volume increase of 70 kMT across all categories in the same period.
 - ☒ D. Rice exports experienced a higher percentage growth from FY23 to FY24 than from FY24 to FY25.

Q.46 A student scores 70, 80 and 90 marks in three subjects having credits 2, 3 and 5, respectively. Find the weighted arithmetic mean.

- Ans**
- ☒ A. 81
 - ☒ B. 83
 - ☒ C. 82
 - ☒ D. 84

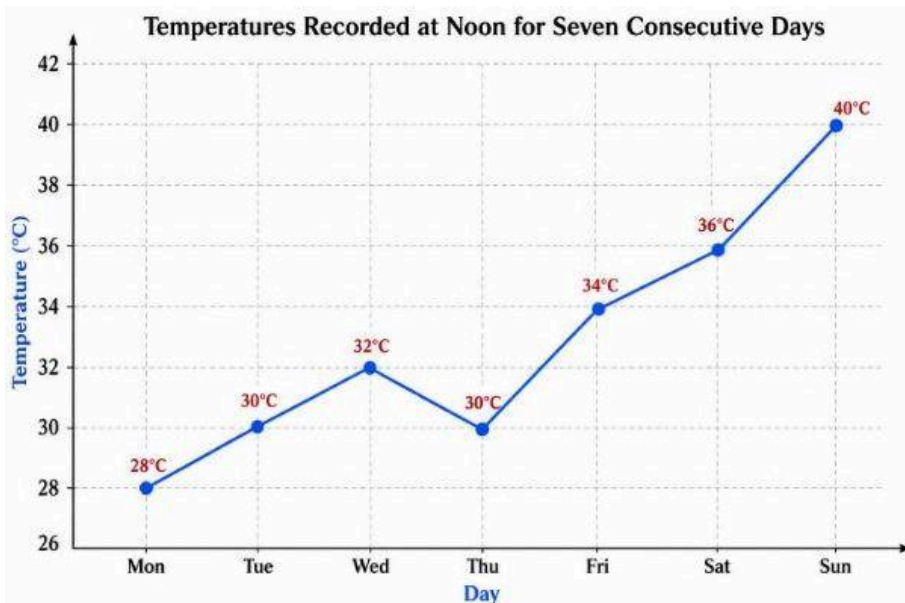
Q.47 A digital lock system only accepts codes divisible by both 6 and 9. Which of these codes would be accepted?

- Ans**
- ☒ A. 152
 - ☒ B. 162
 - ☒ C. 138
 - ☒ D. 135

Q.48 Simplify: $x(9x - 6) + 4(x^2 - 3) + 19$

- Ans**
- ☒ A. $13x^2 - 6x + 7$
 - ☒ B. $13x^2 + 6x - 7$
 - ☒ C. $-13x^2 - 6x - 7$
 - ☒ D. $13x^2 - 6x - 7$

Q.49 A line graph shows the temperatures (in °C) recorded at noon for seven consecutive days.



By how many degrees did the temperature increase from Monday to Sunday?

- Ans
- ☒ A. 13°C
 - ☒ B. 12°C
 - ☐ C. 11°C
 - ☐ D. 10°C

Q.50 The ages of six students in a class range from 12 years for the youngest to 18 years for the oldest. Each student's age is first increased by 10%. After this adjustment, the youngest student is replaced with a student having an age that is 2 years less than his increased age, while the oldest student is replaced with a student having an age that is 1 year more than his increased age. What is the resulting range of the students' ages (in years)?

- Ans
- ☒ A. 9.6
 - ☐ B. 7.6
 - ☐ C. 8.5
 - ☐ D. 6.6

Q.51 If $a : b = 2 : 3$ and $b : c = 4 : 5$, then what is the value of $(a + c) : b$?

- Ans
- ☒ A. 23 : 12
 - ☐ B. 33 : 12
 - ☐ C. 23 : 11
 - ☐ D. 13 : 12

Q.52 Two pipes A and B can fill a cistern in 24 hours and 30 hours, respectively. When both are opened together, a leak at the bottom causes the filling time to increase by 3 hours and 12 minutes. The cistern starts empty, and pipes A, B, and the leak all remain active throughout. A drain pipe C, which can empty the cistern in 10 hours, is additionally opened only for the first 5 hours. What is the total time required to fill the cistern?

- Ans
- ☐ A. 15 hours 45 minutes
 - ☐ B. 12 hours 20 minutes
 - ☒ C. 21 hours 32 minutes
 - ☐ D. 16 hours 15 minutes

Q.53 A hemispherical shell has an external radius R and an internal radius r . If the total surface area of the shell is $448\pi \text{ cm}^2$ and $R - r = 8 \text{ cm}$, what is the value of $R + r$?

- Ans
- ☒ A. 20 cm
 - ☒ B. 16 cm
 - ☒ C. 14 cm
 - ☒ D. 12 cm

Q.54 An equilateral triangle has a side length of $14\sqrt{3} \text{ cm}$. A large circle (circumcircle) passes through its three corners, and a smaller circle (incircle) touches all three sides from inside. What is the area of the ring-shaped region between these two circles? (Use $\pi = 22/7$)

- Ans
- ☒ A. 462 cm^2
 - ☒ B. 492 cm^2
 - ☒ C. 427 cm^2
 - ☒ D. 483 cm^2

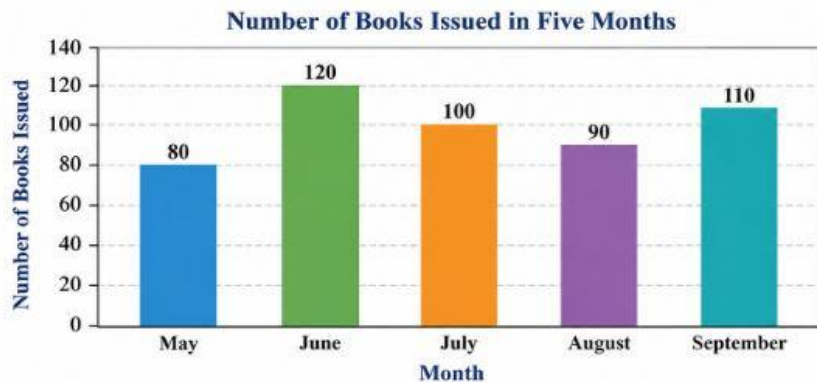
Q.55 The marks obtained by five students are 48, 52, 56, 60 and 64. Find the arithmetic mean using the assumed mean method.

- Ans
- ☒ A. 54
 - ☒ B. 55
 - ☒ C. 56
 - ☒ D. 53

Q.56 For what value of k will the system of linear equations $2x + 3y - 7 = 0$ and $(k - 1)x + (k + 1)y = 2k + 4$ have infinitely many solutions?

- Ans
- ☒ A. 6
 - ☒ B. 5
 - ☒ C. 7
 - ☒ D. -4

Q.57 A bar graph displays the number of books issued in five months:



In which month was the number of books issued equal to the median value?

- Ans
- ☒ A. July
 - ☒ B. May
 - ☒ C. September
 - ☒ D. August

Q.58 The speed of a boat in still water is 18 km/h and the speed of the stream is 4 km/h . How much time will the boat take to travel 154 km downstream?

- Ans
- ☒ A. 7.5 hours
 - ☒ B. 6.5 hours
 - ☒ C. 6 hours
 - ☒ D. 7 hours

Q.59 There is a point E between two parallel lines AB and CD, such that $\angle ABE = 135^\circ$ and $\angle CDE = 120^\circ$. What is the measure of the reflex angle $\angle BED$?

- Ans
- ☐ A. 275°
 - ☐ B. 250°
 - ☒ C. 255°
 - ☐ D. 245°

Q.60 A sum of money is divided between A and B in the ratio 3 : 2. If A receives ₹900 more than B, how much money does B receive?

- Ans
- ☐ A. ₹900
 - ☐ B. ₹1,200
 - ☐ C. ₹2,700
 - ☒ D. ₹1,800

Q.61 In a certain code language,
A - B means 'A is the husband of B',
A @ B means 'A is the mother of B' and
A % B means 'A is the daughter of B'.

If D - E % F @ G % H, then how is D related to G?

- Ans
- ☐ A. Brother
 - ☒ B. Sister's husband
 - ☐ C. Father's sister
 - ☐ D. Father

Q.62 This question is based on the following words
FIN MON LEG TAN

How many letters are there in the English alphabetical order between the second letter of the first word from the right and the second letter of the first word from the left?

- Ans
- ☐ A. 5
 - ☐ B. 6
 - ☐ C. 8
 - ☒ D. 7

Q.63 If 1 April 2009 was Wednesday, then what was the day of the week on 5 May 2019?

- Ans
- ☐ A. Monday
 - ☒ B. Sunday
 - ☐ C. Wednesday
 - ☐ D. Saturday

Q.64 Each vowel in the word WALKING is changed to the second letter preceding it in the English alphabetical order and each consonant is changed to the letter immediately following it in the English alphabetical order. How many letters will appear exactly twice in the group of letters thus formed?

- Ans
- ☐ A. One
 - ☐ B. Two
 - ☒ C. Zero
 - ☐ D. Three

Q.65 Refer to the following number and symbol series and answer the question that follows.
Counting to be done from left to right only.

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

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

Ans ✓ A. More than two

✗ B. None

✗ C. One

✗ D. Two

Comprehension:

Read the passage carefully and answer the questions that follow.

The integration of Artificial Intelligence (AI) into education has introduced significant changes in the ways knowledge is delivered, accessed, and evaluated. AI-based systems can analyse learning patterns, provide personalised feedback, and assist educators in designing more effective teaching strategies. By identifying individual strengths and difficulties, these technologies create opportunities for learners to receive support according to their specific needs rather than following a uniform approach. However, the increasing use of AI in educational environments has also raised concerns regarding data privacy, unequal access, and the changing role of teachers. While automated systems can improve efficiency, they cannot fully replace the human qualities of empathy, encouragement, and social understanding that influence meaningful learning experiences. Therefore, successful implementation of AI requires a balanced approach in which technological tools complement rather than replace human guidance. Educational institutions must develop appropriate policies, improve digital skills, and ensure that technological benefits are available to diverse groups of learners. Furthermore, teachers need adequate training to use AI resources effectively while maintaining ethical standards in classrooms. The future of AI in education depends not only on technological advancement but also on responsible decision-making, inclusive practices, and continuous evaluation. When applied thoughtfully, AI can strengthen educational systems by expanding learning opportunities and supporting both teachers and students in achieving better outcomes.

SubQuestion No : 66

Q.66 Select the best title that fits the passage.

Ans ✗ A. Classroom Technologies Replacing Traditional Teaching Practices

✗ B. Digital Resources Transforming Contemporary Learning Methods

✗ C. Educational Policies Managing Institutional Training Requirements

✓ D. Artificial Intelligence Supporting Balanced Educational Development

Comprehension:

Read the passage carefully and answer the questions that follow.

The integration of Artificial Intelligence (AI) into education has introduced significant changes in the ways knowledge is delivered, accessed, and evaluated. AI-based systems can analyse learning patterns, provide personalised feedback, and assist educators in designing more effective teaching strategies. By identifying individual strengths and difficulties, these technologies create opportunities for learners to receive support according to their specific needs rather than following a uniform approach. However, the increasing use of AI in educational environments has also raised concerns regarding data privacy, unequal access, and the changing role of teachers. While automated systems can improve efficiency, they cannot fully replace the human qualities of empathy, encouragement, and social understanding that influence meaningful learning experiences. Therefore, successful implementation of AI requires a balanced approach in which technological tools complement rather than replace human guidance. Educational institutions must develop appropriate policies, improve digital skills, and ensure that technological benefits are available to diverse groups of learners. Furthermore, teachers need adequate training to use AI resources effectively while maintaining ethical standards in classrooms. The future of AI in education depends not only on technological advancement but also on responsible decision-making, inclusive practices, and continuous evaluation. When applied thoughtfully, AI can strengthen educational systems by expanding learning opportunities and supporting both teachers and students in achieving better outcomes.

SubQuestion No : 67

Q.67 Identify the primary theme presented in the passage.

Ans ✗ A. Digital learning depends entirely on artificial intelligence tools.

✗ B. Automated systems have removed the need for classroom interaction.

✗ C. Modern institutions should avoid technological developments completely.

✓ D. Educational technology requires careful use alongside human guidance.

Comprehension:

Read the passage carefully and answer the questions that follow.

The integration of Artificial Intelligence (AI) into education has introduced significant changes in the ways knowledge is delivered, accessed, and evaluated. AI-based systems can analyse learning patterns, provide personalised feedback, and assist educators in designing more effective teaching strategies. By identifying individual strengths and difficulties, these technologies create opportunities for learners to receive support according to their specific needs rather than following a uniform approach. However, the increasing use of AI in educational environments has also raised concerns regarding data privacy, unequal access, and the changing role of teachers. While automated systems can improve efficiency, they cannot fully replace the human qualities of empathy, encouragement, and social understanding that influence meaningful learning experiences. Therefore, successful implementation of AI requires a balanced approach in which technological tools complement rather than replace human guidance. Educational institutions must develop appropriate policies, improve digital skills, and ensure that technological benefits are available to diverse groups of learners. Furthermore, teachers need adequate training to use AI resources effectively while maintaining ethical standards in classrooms. The future of AI in education depends not only on technological advancement but also on responsible decision-making, inclusive practices, and continuous evaluation. When applied thoughtfully, AI can strengthen educational systems by expanding learning opportunities and supporting both teachers and students in achieving better outcomes.

SubQuestion No : 68

Q.68 Which of the following facts is true according to the passage?

- Ans** ☒ A. AI systems can provide personalised feedback to learners.
☐ B. Artificial intelligence can replace human qualities in education.
☐ C. Teachers require no training for using educational technologies.
☐ D. Automated platforms guarantee equal access for all students.

Comprehension:

Read the passage carefully and answer the questions that follow.

The integration of Artificial Intelligence (AI) into education has introduced significant changes in the ways knowledge is delivered, accessed, and evaluated. AI-based systems can analyse learning patterns, provide personalised feedback, and assist educators in designing more effective teaching strategies. By identifying individual strengths and difficulties, these technologies create opportunities for learners to receive support according to their specific needs rather than following a uniform approach. However, the increasing use of AI in educational environments has also raised concerns regarding data privacy, unequal access, and the changing role of teachers. While automated systems can improve efficiency, they cannot fully replace the human qualities of empathy, encouragement, and social understanding that influence meaningful learning experiences. Therefore, successful implementation of AI requires a balanced approach in which technological tools complement rather than replace human guidance. Educational institutions must develop appropriate policies, improve digital skills, and ensure that technological benefits are available to diverse groups of learners. Furthermore, teachers need adequate training to use AI resources effectively while maintaining ethical standards in classrooms. The future of AI in education depends not only on technological advancement but also on responsible decision-making, inclusive practices, and continuous evaluation. When applied thoughtfully, AI can strengthen educational systems by expanding learning opportunities and supporting both teachers and students in achieving better outcomes.

SubQuestion No : 69

Q.69 Identify the structure of the passage.

- Ans** ☐ A. Problem description followed by solutions without further discussion
☐ B. Comparative discussion followed by rejection of alternative viewpoints
☒ C. Concept introduction followed by benefits, concerns, and implications
☐ D. Historical overview followed by technological developments and outcomes

Comprehension:

Read the passage carefully and answer the questions that follow.

The integration of Artificial Intelligence (AI) into education has introduced significant changes in the ways knowledge is delivered, accessed, and evaluated. AI-based systems can analyse learning patterns, provide personalised feedback, and assist educators in designing more effective teaching strategies. By identifying individual strengths and difficulties, these technologies create opportunities for learners to receive support according to their specific needs rather than following a uniform approach. However, the increasing use of AI in educational environments has also raised concerns regarding data privacy, unequal access, and the changing role of teachers. While automated systems can improve efficiency, they cannot fully replace the human qualities of empathy, encouragement, and social understanding that influence meaningful learning experiences. Therefore, successful implementation of AI requires a balanced approach in which technological tools complement rather than replace human guidance. Educational institutions must develop appropriate policies, improve digital skills, and ensure that technological benefits are available to diverse groups of learners. Furthermore, teachers need adequate training to use AI resources effectively while maintaining ethical standards in classrooms. The future of AI in education depends not only on technological advancement but also on responsible decision-making, inclusive practices, and continuous evaluation. When applied thoughtfully, AI can strengthen educational systems by expanding learning opportunities and supporting both teachers and students in achieving better outcomes.

SubQuestion No : 70

Q.70 Which of the following is the most appropriate connection to a real-life situation based on the passage?

- Ans**
- ☒ A. A training institute postpones digital innovation because technological change is considered unsuitable for formal education.
 - ☒ B. A university introduces adaptive learning software while encouraging instructors to supervise learning and address students' individual needs.
 - ☒ C. A college allows automated systems to determine every academic decision without involving educators in instructional planning.
 - ☒ D. A school evaluates student achievement exclusively through computer-generated recommendations without academic review.

Comprehension:

Read the passage carefully and answer the questions that follow.

Situated along the banks of the River Ganga, Varanasi is a city marked by layers of history, spirituality, and cultural expression. Its narrow lanes, ancient structures, and traditional marketplaces create a distinctive atmosphere where past and present exist together. The city's riverfront is characterised by a series of stone steps leading to the water, where daily activities, religious ceremonies, and social interactions take place. The early morning landscape presents a unique scene as boats move across the river, visitors gather near the ghats, and the surroundings gradually become filled with sounds of prayers, conversations, and traditional music. Beyond its visible architecture, Varanasi is also recognised for its long-standing traditions of craftsmanship, classical learning, and artistic practices. The city's temples, residential areas, and cultural spaces reflect diverse influences developed through centuries of interaction among different communities. The local markets display a variety of handmade products, textiles, and artistic creations that represent the skills of regional artisans. However, the preservation of this cultural environment requires careful attention because increasing urban pressure and changing lifestyles have affected some traditional features of the city. Efforts to maintain its historical character involve protecting architectural spaces, supporting local crafts, and encouraging responsible tourism. Varanasi continues to remain a significant cultural landscape because its identity is shaped not only by physical structures but also by the living traditions, memories, and practices of its people.

SubQuestion No : 71

Q.71 Select the best title that fits the passage.

- Ans**
- ☒ A. Cultural Landscapes Reflecting Historical Continuity
 - ☒ B. Religious Practices Influencing Regional Social Systems
 - ☒ C. Urban Development Transforming Traditional Communities
 - ☒ D. Tourism Activities Expanding Local Economic Opportunities

Comprehension:

Read the passage carefully and answer the questions that follow.

Situated along the banks of the River Ganga, Varanasi is a city marked by layers of history, spirituality, and cultural expression. Its narrow lanes, ancient structures, and traditional marketplaces create a distinctive atmosphere where past and present exist together. The city's riverfront is characterised by a series of stone steps leading to the water, where daily activities, religious ceremonies, and social interactions take place. The early morning landscape presents a unique scene as boats move across the river, visitors gather near the ghats, and the surroundings gradually become filled with sounds of prayers, conversations, and traditional music. Beyond its visible architecture, Varanasi is also recognised for its long-standing traditions of craftsmanship, classical learning, and artistic practices. The city's temples, residential areas, and cultural spaces reflect diverse influences developed through centuries of interaction among different communities. The local markets display a variety of handmade products, textiles, and artistic creations that represent the skills of regional artisans. However, the preservation of this cultural environment requires careful attention because increasing urban pressure and changing lifestyles have affected some traditional features of the city. Efforts to maintain its historical character involve protecting architectural spaces, supporting local crafts, and encouraging responsible tourism. Varanasi continues to remain a significant cultural landscape because its identity is shaped not only by physical structures but also by the living traditions, memories, and practices of its people.

SubQuestion No : 72

Q.72 Which of the following is the most appropriate connection to a real-life situation based on the passage?

- Ans**
- ☐ A. A tourism board promotes entertainment facilities as the primary means of preserving the historical identity of an ancient city.
 - ☐ B. A heritage committee restricts public access to cultural sites because community participation is considered harmful to conservation efforts.
 - ☐ C. A municipal authority replaces traditional neighbourhoods with commercial complexes to maximise economic activity and modern infrastructure.
 - ☒ D. A city administration restores historic buildings while supporting local artisans and promoting tourism that respects cultural traditions.

Comprehension:

Read the passage carefully and answer the questions that follow.

Situated along the banks of the River Ganga, Varanasi is a city marked by layers of history, spirituality, and cultural expression. Its narrow lanes, ancient structures, and traditional marketplaces create a distinctive atmosphere where past and present exist together. The city's riverfront is characterised by a series of stone steps leading to the water, where daily activities, religious ceremonies, and social interactions take place. The early morning landscape presents a unique scene as boats move across the river, visitors gather near the ghats, and the surroundings gradually become filled with sounds of prayers, conversations, and traditional music. Beyond its visible architecture, Varanasi is also recognised for its long-standing traditions of craftsmanship, classical learning, and artistic practices. The city's temples, residential areas, and cultural spaces reflect diverse influences developed through centuries of interaction among different communities. The local markets display a variety of handmade products, textiles, and artistic creations that represent the skills of regional artisans. However, the preservation of this cultural environment requires careful attention because increasing urban pressure and changing lifestyles have affected some traditional features of the city. Efforts to maintain its historical character involve protecting architectural spaces, supporting local crafts, and encouraging responsible tourism. Varanasi continues to remain a significant cultural landscape because its identity is shaped not only by physical structures but also by the living traditions, memories, and practices of its people.

SubQuestion No : 73

Q.73 Which of the following facts is true according to the passage?

- Ans**
- ☒ A. Local markets display handmade products created by artisans.
 - ☐ B. Cultural spaces exist separately from community activities.
 - ☐ C. Ancient structures remain unaffected by modern pressures.
 - ☐ D. Traditional practices have disappeared from the city completely.

Comprehension:

Read the passage carefully and answer the questions that follow.

Situated along the banks of the River Ganga, Varanasi is a city marked by layers of history, spirituality, and cultural expression. Its narrow lanes, ancient structures, and traditional marketplaces create a distinctive atmosphere where past and present exist together. The city's riverfront is characterised by a series of stone steps leading to the water, where daily activities, religious ceremonies, and social interactions take place. The early morning landscape presents a unique scene as boats move across the river, visitors gather near the ghats, and the surroundings gradually become filled with sounds of prayers, conversations, and traditional music. Beyond its visible architecture, Varanasi is also recognised for its long-standing traditions of craftsmanship, classical learning, and artistic practices. The city's temples, residential areas, and cultural spaces reflect diverse influences developed through centuries of interaction among different communities. The local markets display a variety of handmade products, textiles, and artistic creations that represent the skills of regional artisans. However, the preservation of this cultural environment requires careful attention because increasing urban pressure and changing lifestyles have affected some traditional features of the city. Efforts to maintain its historical character involve protecting architectural spaces, supporting local crafts, and encouraging responsible tourism. Varanasi continues to remain a significant cultural landscape because its identity is shaped not only by physical structures but also by the living traditions, memories, and practices of its people.

SubQuestion No : 74

Q.74 Identify the structure of the passage.

- Ans**
- ☐ A. Argument presentation followed by evidence and recommendations
 - ☐ B. Concept explanation followed by causes, effects, and solutions
 - ☒ C. Detailed portrayal followed by features, concerns, and preservation
 - ☐ D. Historical sequence followed by events and changing outcomes

Comprehension:

Read the passage carefully and answer the questions that follow.

Situated along the banks of the River Ganga, Varanasi is a city marked by layers of history, spirituality, and cultural expression. Its narrow lanes, ancient structures, and traditional marketplaces create a distinctive atmosphere where past and present exist together. The city's riverfront is characterised by a series of stone steps leading to the water, where daily activities, religious ceremonies, and social interactions take place. The early morning landscape presents a unique scene as boats move across the river, visitors gather near the ghats, and the surroundings gradually become filled with sounds of prayers, conversations, and traditional music. Beyond its visible architecture, Varanasi is also recognised for its long-standing traditions of craftsmanship, classical learning, and artistic practices. The city's temples, residential areas, and cultural spaces reflect diverse influences developed through centuries of interaction among different communities. The local markets display a variety of handmade products, textiles, and artistic creations that represent the skills of regional artisans. However, the preservation of this cultural environment requires careful attention because increasing urban pressure and changing lifestyles have affected some traditional features of the city. Efforts to maintain its historical character involve protecting architectural spaces, supporting local crafts, and encouraging responsible tourism. Varanasi continues to remain a significant cultural landscape because its identity is shaped not only by physical structures but also by the living traditions, memories, and practices of its people.

SubQuestion No : 75

Q.75 Identify the style of the passage.

- Ans**
- ☐ A. An expository explanation through facts, analysis, and information
 - ☐ B. A persuasive argument through claims, evidence, and recommendations
 - ☐ C. A narrative account through events, experiences, and sequences
 - ☒ D. A descriptive portrayal through details, impressions, and observations

Comprehension:

Read the passage carefully and answer the questions that follow.

When Dr. Meera Rao began her research career, she was fascinated by the unexplored possibilities of marine ecosystems. During her early years at a coastal research institute, she spent long hours observing oceanic organisms and recording changes in their habitats. Her initial investigations were often limited by inadequate equipment and unpredictable weather conditions, yet these difficulties strengthened her determination to continue her work. After several years of field research, she discovered unusual patterns in the behaviour of a rare marine species, which encouraged her to develop a broader study on ecological adaptation. The journey was not without challenges, as repeated failures in experiments forced her team to reconsider their methods and approach the problem from new perspectives. Through persistence and collaboration with researchers from different institutions, she gradually developed a reliable framework for analysing environmental changes. Her findings later contributed to improved conservation practices and attracted attention from scientific communities worldwide. Beyond her research achievements, Dr. Rao believed that scientific progress depended on patience, cooperation, and the willingness to learn from unsuccessful attempts. She regularly encouraged young researchers to explore unanswered questions with curiosity and commitment. Her career demonstrated that significant discoveries often emerge through continuous effort rather than sudden success. The story of her work remains an example of how individual dedication, combined with collective knowledge, can contribute to meaningful advancements in scientific understanding.

SubQuestion No : 76

Q.76 Select the best title that fits the passage.

- Ans** ☒ A. Institutional Support Developing Scientific Knowledge
 ☒ B. A Researcher's Journey Towards Scientific Discovery
 ☒ C. Scientific Challenges Shaping Modern Research Methods
 ☒ D. Marine Ecosystems Influencing Environmental Studies

Comprehension:

Read the passage carefully and answer the questions that follow.

When Dr. Meera Rao began her research career, she was fascinated by the unexplored possibilities of marine ecosystems. During her early years at a coastal research institute, she spent long hours observing oceanic organisms and recording changes in their habitats. Her initial investigations were often limited by inadequate equipment and unpredictable weather conditions, yet these difficulties strengthened her determination to continue her work. After several years of field research, she discovered unusual patterns in the behaviour of a rare marine species, which encouraged her to develop a broader study on ecological adaptation. The journey was not without challenges, as repeated failures in experiments forced her team to reconsider their methods and approach the problem from new perspectives. Through persistence and collaboration with researchers from different institutions, she gradually developed a reliable framework for analysing environmental changes. Her findings later contributed to improved conservation practices and attracted attention from scientific communities worldwide. Beyond her research achievements, Dr. Rao believed that scientific progress depended on patience, cooperation, and the willingness to learn from unsuccessful attempts. She regularly encouraged young researchers to explore unanswered questions with curiosity and commitment. Her career demonstrated that significant discoveries often emerge through continuous effort rather than sudden success. The story of her work remains an example of how individual dedication, combined with collective knowledge, can contribute to meaningful advancements in scientific understanding.

SubQuestion No : 77

Q.77 Which of the following is the most appropriate connection to a real-life situation based on the passage?

- Ans** ☒ A. A scientific organisation assigns researchers to independent projects so that external collaboration does not influence experimental conclusions.
 ☒ B. A laboratory discontinues an investigation because unexpected results indicate that further experiments are unlikely to produce meaningful outcomes.
 ☒ C. A research team revises its experimental methods after repeated failures and collaborates with experts from other institutions to improve its findings.
 ☒ D. A research institute evaluates scientific success primarily by the speed with which investigators produce publishable results.

Comprehension:

Read the passage carefully and answer the questions that follow.

When Dr. Meera Rao began her research career, she was fascinated by the unexplored possibilities of marine ecosystems. During her early years at a coastal research institute, she spent long hours observing oceanic organisms and recording changes in their habitats. Her initial investigations were often limited by inadequate equipment and unpredictable weather conditions, yet these difficulties strengthened her determination to continue her work. After several years of field research, she discovered unusual patterns in the behaviour of a rare marine species, which encouraged her to develop a broader study on ecological adaptation. The journey was not without challenges, as repeated failures in experiments forced her team to reconsider their methods and approach the problem from new perspectives. Through persistence and collaboration with researchers from different institutions, she gradually developed a reliable framework for analysing environmental changes. Her findings later contributed to improved conservation practices and attracted attention from scientific communities worldwide. Beyond her research achievements, Dr. Rao believed that scientific progress depended on patience, cooperation, and the willingness to learn from unsuccessful attempts. She regularly encouraged young researchers to explore unanswered questions with curiosity and commitment. Her career demonstrated that significant discoveries often emerge through continuous effort rather than sudden success. The story of her work remains an example of how individual dedication, combined with collective knowledge, can contribute to meaningful advancements in scientific understanding.

SubQuestion No : 78

Q.78 Which of the following facts is true according to the passage?

- Ans** ✓ **A. Dr. Rao studied patterns in marine species behaviour.**
 ✗ **B. Dr. Rao discovered solutions without field investigations.**
 ✗ **C. Dr. Rao abandoned research after experimental failures.**
 ✗ **D. Dr. Rao worked without assistance from other researchers.**

Comprehension:

Read the passage carefully and answer the questions that follow.

When Dr. Meera Rao began her research career, she was fascinated by the unexplored possibilities of marine ecosystems. During her early years at a coastal research institute, she spent long hours observing oceanic organisms and recording changes in their habitats. Her initial investigations were often limited by inadequate equipment and unpredictable weather conditions, yet these difficulties strengthened her determination to continue her work. After several years of field research, she discovered unusual patterns in the behaviour of a rare marine species, which encouraged her to develop a broader study on ecological adaptation. The journey was not without challenges, as repeated failures in experiments forced her team to reconsider their methods and approach the problem from new perspectives. Through persistence and collaboration with researchers from different institutions, she gradually developed a reliable framework for analysing environmental changes. Her findings later contributed to improved conservation practices and attracted attention from scientific communities worldwide. Beyond her research achievements, Dr. Rao believed that scientific progress depended on patience, cooperation, and the willingness to learn from unsuccessful attempts. She regularly encouraged young researchers to explore unanswered questions with curiosity and commitment. Her career demonstrated that significant discoveries often emerge through continuous effort rather than sudden success. The story of her work remains an example of how individual dedication, combined with collective knowledge, can contribute to meaningful advancements in scientific understanding.

SubQuestion No : 79

Q.79 Identify the structure of the passage.

- Ans** ✗ **A. Problem discussion followed by causes and possible solutions**
 ✓ **B. Event sequence followed by experiences and final achievements**
 ✗ **C. Comparative study followed by differences and conclusions**
 ✗ **D. Concept explanation followed by analysis and recommendations**

Comprehension:

Read the passage carefully and answer the questions that follow.

When Dr. Meera Rao began her research career, she was fascinated by the unexplored possibilities of marine ecosystems. During her early years at a coastal research institute, she spent long hours observing oceanic organisms and recording changes in their habitats. Her initial investigations were often limited by inadequate equipment and unpredictable weather conditions, yet these difficulties strengthened her determination to continue her work. After several years of field research, she discovered unusual patterns in the behaviour of a rare marine species, which encouraged her to develop a broader study on ecological adaptation. The journey was not without challenges, as repeated failures in experiments forced her team to reconsider their methods and approach the problem from new perspectives. Through persistence and collaboration with researchers from different institutions, she gradually developed a reliable framework for analysing environmental changes. Her findings later contributed to improved conservation practices and attracted attention from scientific communities worldwide. Beyond her research achievements, Dr. Rao believed that scientific progress depended on patience, cooperation, and the willingness to learn from unsuccessful attempts. She regularly encouraged young researchers to explore unanswered questions with curiosity and commitment. Her career demonstrated that significant discoveries often emerge through continuous effort rather than sudden success. The story of her work remains an example of how individual dedication, combined with collective knowledge, can contribute to meaningful advancements in scientific understanding.

SubQuestion No : 80

Q.80 Identify the style of the passage.

- Ans**
- ☒ A. An expository explanation through facts, analysis, and information
 - ☒ B. A narrative account through experiences, actions, and sequences
 - ☒ C. A descriptive portrayal through details, observations, and impressions
 - ☒ D. A persuasive argument through claims, evidence, and recommendations

Q.81 What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?
 $36 \times 4 + 16 - 5 \div 3 = ?$

- Ans**
- ☒ A. 14
 - ☒ B. 19
 - ☒ C. 11
 - ☒ D. 8

Q.82 CLPTUN is related to GUSQLJ in a certain way based on the English alphabetical order. In the same way, YRKGSP is related to CSNDRL. To which of the following is MTELRB related, following the same logic?

- Ans**
- ☒ A. QRHITX
 - ☒ B. PQHISX
 - ☒ C. PRHJUW
 - ☒ D. QSGJSY

Q.83 Based on the English alphabetical order, three of the following four are alike in a certain way and thus form a group. Which is the one that does not belong to that group? (Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

- Ans**
- ☒ A. EJM
 - ☒ B. GLO
 - ☒ C. FKT
 - ☒ D. MRU

Q.84 E, F, G, H, Q, R, S and T are sitting around a square table facing the centre of the table. Some of them are sitting at the corners while some are sitting at the exact centre of the sides.
Only three people sit between H and Q. H sits at the centre of one of the sides. E sits second to the left of Q. S sits second to the right of F. R sits at one of the corners and is not an immediate neighbor of Q. Only three people sit between S and T. R is not an immediate neighbor of G.
Who sits fourth to the left of G?

Ans ☒ A. Q
☒ B. E
☒ C. T
☒ D. R

Q.85 If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 47521836, what will be difference between the highest and lowest digits in the number thus formed?

Ans ☒ A. 6
☒ B. 9
☒ C. 7
☒ D. 8

Q.86 Based on the English alphabetical order, three of the following four are alike in a certain way and thus form a group. Which is the one that does not belong to that group?
(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster.)

Ans ☒ A. QUX
☒ B. DGK
☒ C. BFI
☒ D. HLO

Q.87 What should come in place of ? in the given series?
20 30 46 68 96 ?

Ans ☒ A. 131
☒ B. 129
☒ C. 130
☒ D. 132

Q.88 Seven boxes, P, O, S, T, M, A and N, are kept one over the other but not necessarily in the same order.

Only four boxes are kept between M and N. Only O is kept above M. Only two boxes are kept between A and T. P is kept immediately above S. T is not kept immediately above P. Which box is kept fourth from the top?

Ans ☒ A. P
☒ B. S
☒ C. A
☒ D. O

Q.89 In the following series, only one letter cluster is wrong. Find out the wrong letter cluster.
FDA IGD LJG OMJ RPN USP

Ans ☒ A. OMJ
☒ B. LJG
☒ C. IGD
☒ D. RPN

Q.90 If 'A' stands for '÷', 'B' stands for 'x', 'C' stands for '+' and 'D' stands for '-', what will come in place of question mark '?' in the following equation?
99 C 44 A 4 D 9 B 8 = ?

- Ans**
- ✓ A. 38
 - ✗ B. 37
 - ✗ C. 35
 - ✗ D. 36

Q.91 In a code language, "ENGULF" is coded as "751610234" and "DRIVEL" is coded as "672032410". Which of the following are correct matches as per the given code language?

WORD CODE

(i) FROG (X) 1331221

(ii) TRIP (Y) 413205

(iii) KNEW (Z) 2272014

- Ans**
- ✗ A. iii-Y, i-Z only
 - ✗ B. i-Z, ii-X, iii-Y
 - ✗ C. i-Y, iii-X only
 - ✓ D. ii-Z only

Q.92 Based on the alphabetical order, three of the following four are alike in a certain way and thus form a group. Which is the one that does not belong to that group?
(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster)

- Ans**
- ✗ A. LNI
 - ✗ B. OQL
 - ✗ C. RTO
 - ✓ D. IKE

Q.93 SOHT is related to DZSE in a certain way based on the English alphabetical order. In the same way, KGZL is related to VRKW. To which of the following options is RNGS related, following the same logic?

- Ans**
- ✗ A. CYUI
 - ✗ B. CRDE
 - ✗ C. XDRE
 - ✓ D. CYRD

Q.94 All 33 people are standing in a row facing North. Firoz is 7th from the right end while Sudip is 22nd from the left end. How many people are there between Firoz and Sudip?

- Ans**
- ✓ A. 4
 - ✗ B. 2
 - ✗ C. 3
 - ✗ D. 5

Q.95 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, a 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 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.)
 $6 - 18 - 36 - 136$;
 $8 - 24 - 48 - 148$.

- Ans** ☒ A. $10 - 20 - 40 - 140$
☒ B. $7 - 21 - 42 - 142$
☒ C. $9 - 27 - 54 - 164$
☒ D. $5 - 15 - 45 - 145$

Q.96 GRCB is related to PALK in a certain way based on the English alphabetical order. In the same way, QBML is related to ZKVU. To which of the following options is RCNM related, following the same logic?

- Ans** ☒ A. ALWV
☒ B. WAVB
☒ C. ALCV
☒ D. LAVY

Q.97 Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?

UCQ 28, VFM 21, WII 12, XLE 1, ?

- Ans** ☒ A. HGT -21
☒ B. YOA -12
☒ C. JKI -33
☒ D. JKU -23

Q.98 Eight friends, M, N, O, P, Q, R, S and T, are sitting around a square table facing the centre of the table. Four of them are sitting at the corners of the table and four are sitting at the centre of the sides. M sits at a corner. Only three people sit between P and M. R is an immediate neighbour of M. S sits immediately to the right of R. Q sits at a corner. N sits immediately to the left of Q. T is an immediate neighbour of P. Who sits to the immediate left of M?

- Ans** ☒ A. N
☒ B. Q
☒ C. O
☒ D. T

Q.99 What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?
 $32 \div 30 - 16 + 18 \times 18 = ?$

- Ans** ☒ A. 976
☒ B. 975
☒ C. 974
☒ D. 973

Q.100 A, B, C, D, E and F live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it, number 2 and so on till the topmost floor is numbered 6.

Only four people live below B. Only four people live above D. C lives immediately above F. E does not live on an odd numbered floor. How many people live between C and A?

Ans

☒ A. Four

☒ B. Two

☒ C. One

☒ D. Three



रेलवे भर्ती बोर्ड / RAILWAY RECRUITMENT BOARD

सी ई एन - ०३/२०२६ - CEN - 03/2026

सेक्शन कंट्रोलर की भर्ती / Recruitment of Section Controller



Test Date	13/10/2026
Test Time	9:00 AM - 11:00 AM
Subject	RRB SECTION CONTROLLER CBT 1

*** Note**

Correct Answer will carry 1 mark per Question.

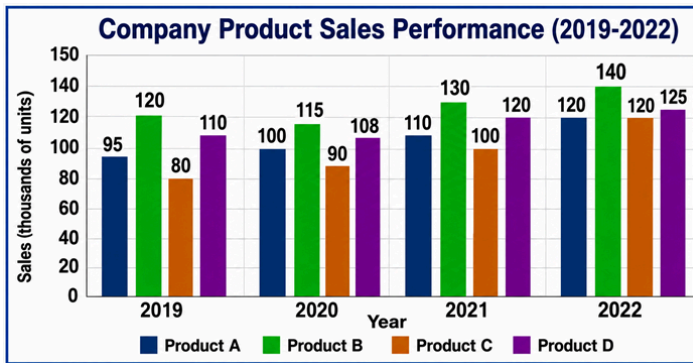
Incorrect Answer will carry 1/3 Negative mark per Question.

- Options shown in green color with a tick icon are correct.
- Chosen option on the right of the question indicates the option selected by the candidate.

Section : RRB SECTION CONTROLLER CBT 1

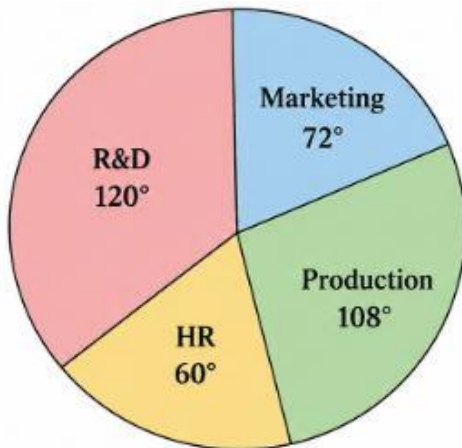
- Q.1** A researcher calculates the arithmetic mean of a grouped dataset using an assumed mean (A) of 50. Which combination of statements is sufficient to find the actual arithmetic mean?
Statement I: The sum of the frequencies (Σf) is exactly 100.
Statement II: The sum of the products of frequencies and deviations (Σfd) is +250.
Statement III: The lowest class interval starts at 10.
- Ans** ☒ A. Statements I and II together are not sufficient
☒ B. Statements I and III together are sufficient
☒ C. Statements I and II together are sufficient
☒ D. All statements I, II, and III together are necessary
- Q.2** If a person travels at 0.8 of his usual speed and arrives 15 minutes late to his office, what is his usual time to reach the office?
- Ans** ☒ A. 45 minutes
☒ B. 60 minutes
☒ C. 75 minutes
☒ D. 30 minutes
- Q.3** A hemispherical water tank has a diameter of 12 m. If only its curved surface is painted, what is the area (in m^2) of the surface that is painted?
- Ans** ☒ A. 72π
☒ B. 144π
☒ C. 108π
☒ D. 36π
- Q.4** Three numbers are in the ratio 2:5:7. After increasing the first number by 50%, decreasing the second by 20%, and increasing the third by 10%, the sum of the resulting numbers is 396.9. What is the original second number?
- Ans** ☒ A. 108
☒ B. 135
☒ C. 150
☒ D. 125

- Q.5** A company manufactures and sells four products (A, B, C, D) from 2019 to 2022. The following bar graph presents the sales (in thousands of units) for each product. In which year did Product C contribute the highest percentage to the total sales of all products, and what was that percentage (rounded to the nearest integer)?



- Ans**
- ☒ A. 2021, 21%
 - ☒ B. 2021, 22%
 - ☒ C. 2020, 22%
 - ☒ D. 2022, 24%

- Q.6** A company's pie chart shows the distribution of expenses among four departments.



If the company needs to reduce the largest sector by 10% which sector will be affected and what will be its new angle?

- Ans**
- ☒ A. R&D, 108°
 - ☒ B. Marketing, 65°
 - ☒ C. HR, 54°
 - ☒ D. Production, 97°

- Q.7** A car's radiator should contain a solution of 61% antifreeze. A motorist has 4 litres of 40% antifreeze. How many litres (rounded off to 2 decimal places) of 84% antifreeze liquid should he add to his solution to produce a 61% antifreeze?

- Ans**
- ☒ A. 1.58
 - ☒ B. 9.57
 - ☒ C. 2.34
 - ☒ D. 3.65

- Q.8** In an arithmetic progression, the sum of the first 20 terms is 640 and the sum of the first 10 terms is 220. What is the 15th term of this sequence?

- Ans**
- ☒ A. 40
 - ☒ B. 45
 - ☒ C. 41
 - ☒ D. 47

Q.9 Two cars, S and T, are racing over a distance of 400 m. Car S travels at 16 m/s, while car T travels at 12 m/s. How many meters ahead of the starting line must T begin so that both cars reach the finish line at the same time?

- Ans**
- ☐ A. 90 m
 - ☐ B. 120 m
 - ☐ C. 80 m
 - ☒ D. 100 m

Q.10 A trader purchased an article for ₹6,400. He marked it at 25% above the cost price and allowed a discount of 10% on the marked price. Find his profit.

- Ans**
- ☒ A. ₹800
 - ☐ B. ₹640
 - ☐ C. ₹960
 - ☐ D. ₹720

Q.11 David's salary is ₹20,000 per month. He spends ₹4,500 on house rent, ₹2,500 on bills and the rest of the amount is his monthly savings. Find his savings (in ₹) in a year, if in the month of his birthday he spent his complete monthly saving for the birthday celebration.

- Ans**
- ☐ A. 1,17,000
 - ☐ B. 1,30,000
 - ☒ C. 1,43,000
 - ☐ D. 1,56,000

Q.12 If a card is drawn at random from a deck, what is the probability that it is neither a diamond nor a queen?

- Ans**
- ☒ A. $\frac{36}{52}$
 - ☐ B. $\frac{40}{52}$
 - ☐ C. $\frac{12}{52}$
 - ☐ D. $\frac{39}{52}$

Q.13 Based on the table and the throughput = $C \times (\sqrt{\epsilon} / \eta) \times (\lambda / 2)$, which sequence correctly shows their descending order from highest to lowest throughput?

Fuel Cell Variant	Active Catalyst Loading (C, in g/m ²)	Matrix Porosity Factor (ϵ)	Parasitic Overpotential Loss (η)	Membrane Hydration Variable (λ)
Type- α	2.4	0.64	0.12	14
Type- β	3.6	0.81	0.08	12
Type- γ	1.8	0.36	0.15	16
Type- δ	3.2	0.49	0.05	10

- Ans**
- ☐ A. Type- δ > Type- β > Type- γ > Type- α
 - ☐ B. Type- β > Type- α > Type- δ > Type- γ
 - ☒ C. Type- δ > Type- β > Type- α > Type- γ
 - ☐ D. Type- β > Type- δ > Type- α > Type- γ

Q.14 A shopkeeper buys an article for ₹15,000, spends 12% of the cost price on transport, then sells it to a customer at a 20% profit on the total cost. The customer later sells it at a 5% loss. What is the final selling price?

- Ans**
- ☐ A. ₹20,160
 - ☐ B. ₹16,856
 - ☒ C. ₹19,152
 - ☐ D. ₹18,065

Q.15 The odometer of a car reads 12,050 km at the start of a trip and 12,860 km at its end. If the trip took 5 hours, then the average speed of the car in m/sec is:

- Ans**
- ☒ A. 45
 - ☐ B. 50
 - ☐ C. 40
 - ☐ D. 53

Q.16 Two trains of lengths 180 m and 140 m are going in the same direction. The faster train takes 80 seconds to cross the slower train completely. If they are moving in opposite directions, they cross each other completely in 8 seconds. What is the speed of the slower train (in km/hr)?

- Ans**
- ☒ A. 64.8
 - ☐ B. 40.8
 - ☐ C. 44.4
 - ☐ D. 80

Q.17 What is the smallest value of x that makes $43x2$ divisible by 6?

- Ans**
- ☒ A. 0
 - ☐ B. 3
 - ☐ C. 1
 - ☐ D. 2

Q.18 If 10% of $x = 216$, then x is equal to:

- Ans**
- ☐ A. 4420
 - ☐ B. 4320
 - ☐ C. 2260
 - ☒ D. 2160

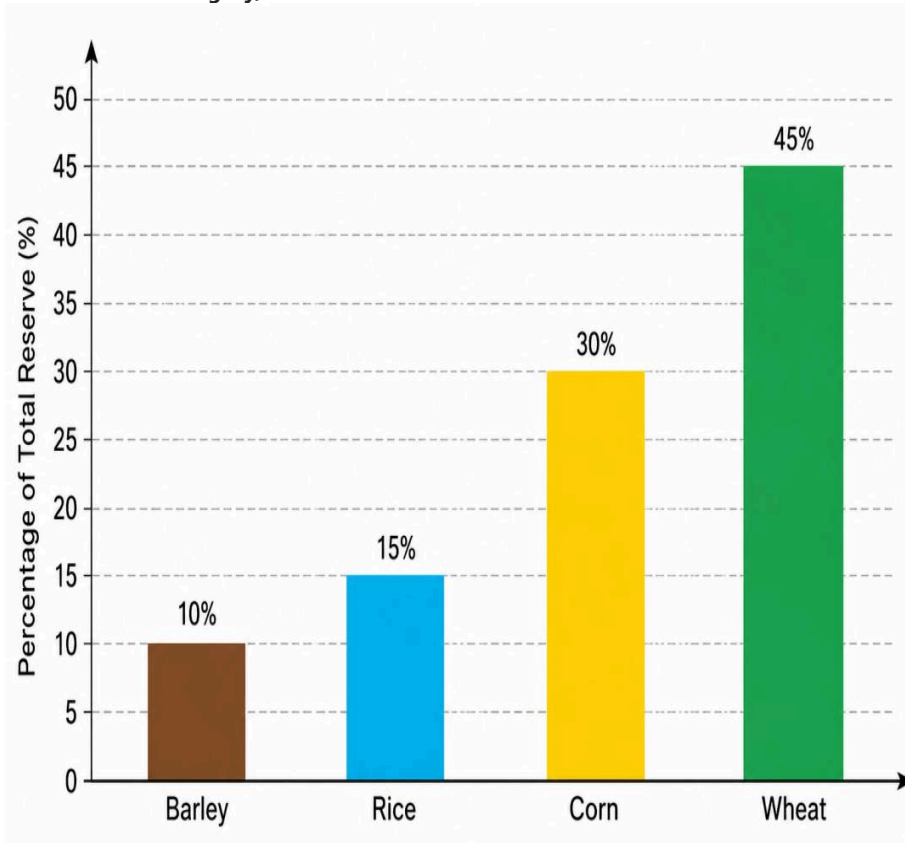
Q.19 The average of 11 numbers is 86. If the first 7 numbers are 33, 38, 42, 90, 110, 77 and 20, then what will be the average of the remaining numbers?

- Ans**
- ☒ A. 134
 - ☐ B. 126
 - ☐ C. 130
 - ☐ D. 141

Q.20 If x varies inversely as y and $x = 15$ when $y = 24$, find x when $y = 18$.

- Ans**
- ☒ A. 20
 - ☐ B. 22
 - ☐ C. 18
 - ☐ D. 24

- Q.21** The graph below shows the percentage distribution of four types of ingredients in a mixture. Wheat weighs 315 metric tons. If Barley and Rice are combined into a single "Minor Grains" category, what is the ratio of Minor Grains to Corn?



Ans ☒ A. 6:7
☒ B. 7:8
☒ C. 5:7
☒ D. 5:6

- Q.22** Two tangents are drawn from an external point to a circle. If the angle between the tangents is 60° , what is the angle between the radii joining the center to the points of contact?

Ans ☒ A. 100°
☒ B. 120°
☒ C. 110°
☒ D. 130°

- Q.23** For which value of k will the following system of equations have infinitely many solutions?

$$4x - 6y = 8,$$

$$2x - 3y = k$$

Ans ☒ A. 5
☒ B. 2
☒ C. 4
☒ D. 3

- Q.24** A student records the marks of four tests: 15, 21, 18, and 16. What is the arithmetic mean of these scores?

Ans ☒ A. 16
☒ B. 17.5
☒ C. 18
☒ D. 19.5

Q.25 The incomes of P, Q, and R are in the ratio 3:5:7. Their incomes are increased by 10%, 20%, and 30%, respectively. After the increase, the difference between the new incomes of R and P is ₹5,80,000. What is the original income of Q?

- Ans
- ☐ A. ₹4,00,000
 - ☒ B. ₹5,00,000
 - ☐ C. ₹4,50,000
 - ☐ D. ₹6,00,000

Q.26 A botanist is tracking the daily height changes of four rare plants. On Monday, the plants grow by 3 cm, 5 cm, 7 cm, and 9 cm, respectively. What is the average growth in centimeters among the four plants for that day?

- Ans
- ☐ A. 8 cm
 - ☐ B. 7 cm
 - ☒ C. 6 cm
 - ☐ D. 5 cm

Q.27 A school allocates a total of 120 books among four classes A, B, C, and D in the ratio 1 : 2 : 3 : 4. How many books are allotted to class C based on this distribution?

- Ans
- ☐ A. 46
 - ☒ B. 36
 - ☐ C. 42
 - ☐ D. 32

Q.28 If two fair coins are tossed, what is the probability of getting at least one tail?

- Ans
- ☐ A. 0.80
 - ☐ B. 0.50
 - ☐ C. 0.25
 - ☒ D. 0.75

Q.29 What is the absolute difference between m and n if the sum of cubes of the first m natural numbers is 14,400 and that of the first n natural numbers is 44,100?

- Ans
- ☐ A. 10
 - ☐ B. 4
 - ☒ C. 5
 - ☐ D. 6

Q.30 The volume of a cuboid is 216 cm^3 , and its base area is 36 cm^2 . What is its height?

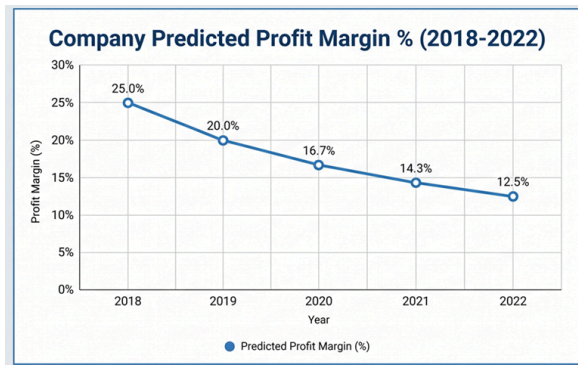
- Ans
- ☐ A. 12 cm
 - ☐ B. 18 cm
 - ☐ C. 36 cm
 - ☒ D. 6 cm

Q.31 A retailer marks up the cost price of a laptop by 50% and then offers three successive discounts of 20%, 10%, and 5% during a festive sale. What was the cost price of the laptop if its final selling price was ₹53,352?

- Ans
- ☐ A. ₹51,000
 - ☐ B. ₹52,500
 - ☐ C. ₹50,000
 - ☒ D. ₹52,000

Q.32 A company's actual revenue and actual expenditure (in million ₹) from 2018 to 2022 are shown in the table below. The line graph shows the predicted profit margin (in %) for the same years. In which year did the actual profit deviate the most from the profit predicted by the profit margin line graph based on the revenue and expenditure data? (Profit Margin = [Revenue - Expenditure]/Expenditure)

Year	Revenue (million ₹)	Expenditure (million ₹)
2018	120	90
2019	150	110
2020	180	150
2021	210	180
2022	240	210



- Ans**
- ☒ A. 2018
 - ☒ B. 2021
 - ☒ C. 2020
 - ☒ D. 2019

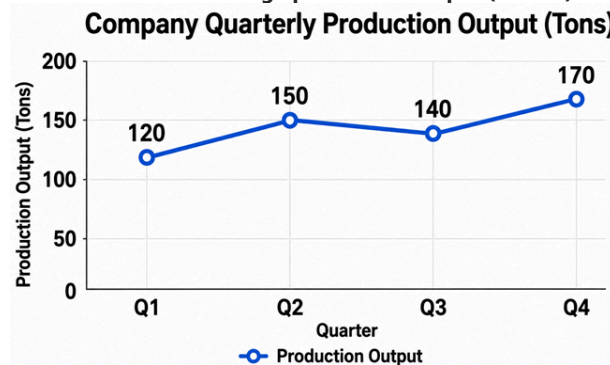
Q.33 What is the sum of the squares of three consecutive odd natural numbers whose sum is 201?

- Ans**
- ☒ A. 13,115
 - ☒ B. 13,295
 - ☒ C. 13,475
 - ☒ D. 13,655

Q.34 The sum of the squares of two consecutive odd natural numbers is 802. The sum of the numbers is:

- Ans**
- ☒ A. 42
 - ☒ B. 24
 - ☒ C. 44
 - ☒ D. 40

- Q.35 A company's quarterly production output (in tons) for a year is given in the line graph below. What is the average production output (in tons) for the entire year?



- Ans
- ☐ A. 140
 - ☐ B. 160
 - ☒ C. 145
 - ☐ D. 150

- Q.36 The LCM of two numbers is 24 times their HCF. The sum of the HCF and LCM is 775. If one of the numbers is 93, then the other number is:

- Ans
- ☐ A. 372
 - ☐ B. 144
 - ☐ C. 155
 - ☒ D. 248

- Q.37 Solve the system of equations:

$$x + y + z = 0$$

$$2x - y + 3z = 5$$

$$5x + 4y - 3z = 10$$

What is the value of $5xyz$?

- Ans
- ☐ A. 45
 - ☐ B. 15
 - ☒ C. 30
 - ☐ D. 60

- Q.38 A boat travels 56 km downstream and then returns 56 km upstream to its starting point. The speed of the boat in still water is 12 km/h. During the downstream journey, the stream speed is 4 km/h for the first 28 km and 2 km/h for the remaining 28 km. During the return journey, the stream speed is 2 km/h for the first 28 km and 4 km/h for the remaining 28 km. What is the total time (in hours) taken for the round trip? (Round off your answer to the nearest integer)

- Ans
- ☐ A. 11
 - ☐ B. 8
 - ☒ C. 10
 - ☐ D. 9

- Q.39 If $3^x \times 9^2 = 27^x$, what is the value of x ?

- Ans
- ☐ A. 1
 - ☐ B. 3
 - ☐ C. 4
 - ☒ D. 2

Q.40 A circle of radius 7 cm is inscribed in a square. What is the area (in cm^2) of the shaded region outside the circle but inside the square? (Use $\pi = 22/7$)

- Ans
- ☒ A. 28
 - ☒ B. 42
 - ☒ C. 14
 - ☒ D. 56

Q.41 Simplify: $12 \times 15 \div (90 \div 18) - 22 + 35 \times 3 \div 15$

- Ans
- ☒ A. 19
 - ☒ B. 20
 - ☒ C. 21
 - ☒ D. 31

Q.42 The LCM of the numbers 6, 108 and 81 is:

- Ans
- ☒ A. 108
 - ☒ B. 432
 - ☒ C. 216
 - ☒ D. 324

Q.43 In a graduate-level statistics class, the following assignment scores and their corresponding weights are recorded:

Score	Weight
70	1
80	2
85	3
90	2
95	2

Find the weighted arithmetic mean of the scores.

- Ans
- ☒ A. 90.0
 - ☒ B. 84.0
 - ☒ C. 85.5
 - ☒ D. 78.5

Q.44 A company's sales data for four consecutive years is shown in the table below. Based on the data, which product has sales that increased every year, with the increase staying the same over the four years?

Year	Product A	Product B	Product C	Product D
2019	120	85	105	130
2020	135	90	125	120
2021	150	110	118	140
2022	165	115	130	150

- Ans
- ☒ A. Product A
 - ☒ B. Product C
 - ☒ C. Product B
 - ☒ D. Product D

Q.45 If p is a prime number greater than 3, which of the following is always true regarding $p^2 - 1$?

- Ans
- ☒ A. It is always a prime number.
 - ☒ B. It is always divisible by 10.
 - ☒ C. It is always divisible by 24.
 - ☒ D. It is always divisible by 15.

Q.46 A transversal cuts two parallel lines, forming alternate interior angles of $(3x+18)^\circ$ and $(x+54)^\circ$. Find the value of x .

- Ans** ☒ A. 18
☐ B. 16
☐ C. 17
☐ D. 19

Q.47 A quadrilateral has sides in the ratio 3 : 4 : 5 : 6. If its perimeter is 36 units, what is the length of its longest side?

- Ans** ☐ A. 9 units
☒ B. 12 units
☐ C. 8 units
☐ D. 6 units

Q.48 A shopkeeper claims to sell rock salt at ₹12 per kg, and its cost price is also ₹12 per kg. However, instead of delivering 1,285 g, he supplies only 514 g for the same price. What is his overall percentage profit?

- Ans** ☐ A. 100%
☐ B. 75%
☒ C. 150%
☐ D. 200%

Q.49 A vendor sold 31 chocolates for ₹1, thereby making a profit of 100%. How many chocolates did he buy for ₹1?

- Ans** ☐ A. 68
☐ B. 66
☒ C. 62
☐ D. 64

Q.50 A and B start a cafe with a capital of ₹6,300 and ₹1,200, respectively. After a year, out of the profit of ₹4,500, A gets his share of profit plus some money as his salary. In total, if A gets ₹4,500, what is the salary amount (in ₹) he received?

- Ans** ☐ A. 715
☐ B. 716
☒ C. 720
☐ D. 719

Q.51 As part of their environmental awareness program, a group of students conducted a survey and gathered the following data on the number of plants in 12 houses within a locality. What is the mean number of plants per house? (Rounded off to the nearest integer.)

Number of Plants	Number of Houses
0 – 2	1
2 – 4	2
4 – 6	2
6 – 8	3
8 – 10	4

- Ans** ☐ A. 3
☐ B. 5
☐ C. 4
☒ D. 6

Q.52 A mixture contains milk and water in the ratio 4 : 1. What percentage of the mixture is water?

- Ans**
- ☒ A. 22%
 - ☒ B. 20%
 - ☒ C. 18%
 - ☒ D. 24%

Q.53 Simplify: $x(7x - 8) + 4(x^2 - 4) + 15$

- Ans**
- ☒ A. $-11x^2 - 8x + 1$
 - ☒ B. $11x^2 - 8x - 1$
 - ☒ C. $11x^2 - 8x + 1$
 - ☒ D. $11x^2 + 8x + 1$

Q.54 In triangle ABC, AB = 13 cm, BC = 14 cm, and CA = 15 cm. A line parallel to BC cuts AB and AC so that the area of the smaller triangle formed is one-fourth that of triangle ABC. What is the length of the segment parallel to BC?

- Ans**
- ☒ A. 7 cm
 - ☒ B. 6 cm
 - ☒ C. 9 cm
 - ☒ D. 8 cm

Q.55 What is the value of $\sqrt{1849}$?

- Ans**
- ☒ A. 42
 - ☒ B. 43
 - ☒ C. 44
 - ☒ D. 41

Q.56 A manufacturing conveyor delivers boxes, where the number of items in each box forms an arithmetic progression: the first box contains 13 items and each subsequent box has 7 more items than the previous one. How many items are in the fifth box delivered?

- Ans**
- ☒ A. 41
 - ☒ B. 34
 - ☒ C. 48
 - ☒ D. 19

Q.57 A can do a piece of work in 76 hours; B and C together can do it in 57 hours, while A and C together can do it in 36 hours. How long (in hours) will B alone take to do it?

- Ans**
- ☒ A. 341
 - ☒ B. 344
 - ☒ C. 343
 - ☒ D. 342

Q.58 Which of the following data sets has the greatest range?

Data Set A: 12, 15, 18, 25;

Data Set B: 9, 16, 22, 24;

Data Set C: 5, 10, 15, 19;

Data Set D: 8, 12, 16, 20

- Ans**
- ☒ A. Data Set D
 - ☒ B. Data Set A
 - ☒ C. Data Set C
 - ☒ D. Data Set B

Q.59 A solid cuboid of dimensions 54 cm × 33 cm × 12 cm is melted and cast into several identical solid cylinders, each of radius 6 cm and height 9 cm. How many full cylinders can be formed? (Use $\pi = 22/7$)

- Ans
- ☒ A. 18
 - ☒ B. 21
 - ☒ C. 19
 - ☒ D. 24

Q.60 A tank is being filled by two inlet pipes, P and Q. P alone can fill the tank in 10 hours, and Q alone in 15 hours. Both pipes are opened together, but after 4 hours, an outlet pipe R is also opened which can empty the tank in 12 hours. How much total time (in hours) will it take to fill the tank?

- Ans
- ☒ A. 8
 - ☒ B. 12
 - ☒ C. 10
 - ☒ D. 9

Q.61 If 19 June 2001 was Tuesday, then what was the day of the week on 15 May 2012?

- Ans
- ☒ A. Saturday
 - ☒ B. Monday
 - ☒ C. Wednesday
 - ☒ D. Tuesday

Q.62 Refer to the following number and symbol series and answer the question that follows. Counting to be done from left to right only.

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

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

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

Q.63 This question is based on the following words
CON MEN LAG PRO

If in each of the words, each letter is changed to the letter immediately following it in the English alphabetical order, how many words thus formed will have no vowel?

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

Q.64 In a certain code language,
A # B means 'A is the mother of B',
A @ B means 'A is the son of B' and
A < B means 'A is the brother of B'.
Based on the above, how D is related to G if D # E @ F < G @ H?

- Ans
- ☒ A. Brother
 - ☒ B. Sister
 - ☒ C. Wife
 - ☒ D. Brother's wife

Q.65 The position(s) of how many letters will remain unchanged if each letter in the word JUNKYARDS is arranged in alphabetical order?

- Ans**
- ☐ A. Three
 - ☐ B. None
 - ☒ C. One
 - ☐ D. Two

Comprehension:

Read the following passage and answer the questions given below.

The rapid integration of artificial intelligence into professional decision-making has generated both enthusiasm and apprehension. Advocates argue that algorithmic systems can process vast quantities of information more efficiently than human beings, thereby reducing errors and enhancing productivity. In fields such as healthcare, finance, and logistics, predictive models often outperform traditional methods in identifying patterns that would otherwise remain unnoticed.

However, efficiency alone does not guarantee legitimacy. Decisions that affect human lives derive their authority not merely from accuracy but also from transparency and accountability. An algorithm may correctly predict an outcome while remaining incapable of explaining the reasoning behind it in terms understandable to those affected. This opacity creates a tension between technical performance and democratic values. Citizens are generally expected to accept decisions when they can evaluate the rationale behind them; opaque systems complicate such evaluation.

Consequently, the debate surrounding artificial intelligence should not be framed as a choice between innovation and regulation. Rather, the challenge lies in designing institutions capable of harnessing technological capabilities while preserving public trust. Excessive regulation may stifle experimentation, but unrestricted deployment may erode confidence in decision-making processes. The most sustainable approach is therefore neither unconditional acceptance nor categorical rejection, but the establishment of mechanisms that make powerful technologies both effective and answerable to society. Such mechanisms may include independent oversight, regular audits, public reporting standards, and avenues for appeal, ensuring that technological progress remains aligned with ethical principles and collective interests.

SubQuestion No : 66

Q.66 Select an appropriate title for the passage.

- Ans**
- ☐ A. Artificial Intelligence and the Limits of Human Judgment
 - ☐ B. Artificial Intelligence and the Promise of Technical Efficiency
 - ☐ C. Artificial Intelligence and the Costs of Excessive Regulation
 - ☒ D. Artificial Intelligence and the Question of Accountability

Comprehension:

Read the following passage and answer the questions given below.

The rapid integration of artificial intelligence into professional decision-making has generated both enthusiasm and apprehension. Advocates argue that algorithmic systems can process vast quantities of information more efficiently than human beings, thereby reducing errors and enhancing productivity. In fields such as healthcare, finance, and logistics, predictive models often outperform traditional methods in identifying patterns that would otherwise remain unnoticed.

However, efficiency alone does not guarantee legitimacy. Decisions that affect human lives derive their authority not merely from accuracy but also from transparency and accountability. An algorithm may correctly predict an outcome while remaining incapable of explaining the reasoning behind it in terms understandable to those affected. This opacity creates a tension between technical performance and democratic values. Citizens are generally expected to accept decisions when they can evaluate the rationale behind them; opaque systems complicate such evaluation.

Consequently, the debate surrounding artificial intelligence should not be framed as a choice between innovation and regulation. Rather, the challenge lies in designing institutions capable of harnessing technological capabilities while preserving public trust. Excessive regulation may stifle experimentation, but unrestricted deployment may erode confidence in decision-making processes. The most sustainable approach is therefore neither unconditional acceptance nor categorical rejection, but the establishment of mechanisms that make powerful technologies both effective and answerable to society. Such mechanisms may include independent oversight, regular audits, public reporting standards, and avenues for appeal, ensuring that technological progress remains aligned with ethical principles and collective interests.

SubQuestion No : 67

Q.67 Which statement best captures the central thesis of the passage?

- Ans**
- ☐ A. Artificial intelligence should replace human decision-makers whenever possible.
 - ☒ B. Technological innovation must be accompanied by institutional accountability.
 - ☐ C. Democratic systems are incapable of adapting to technological change.
 - ☐ D. Predictive models are inherently more accurate than traditional methods.

Comprehension:

Read the following passage and answer the questions given below.

The rapid integration of artificial intelligence into professional decision-making has generated both enthusiasm and apprehension. Advocates argue that algorithmic systems can process vast quantities of information more efficiently than human beings, thereby reducing errors and enhancing productivity. In fields such as healthcare, finance, and logistics, predictive models often outperform traditional methods in identifying patterns that would otherwise remain unnoticed. However, efficiency alone does not guarantee legitimacy. Decisions that affect human lives derive their authority not merely from accuracy but also from transparency and accountability. An algorithm may correctly predict an outcome while remaining incapable of explaining the reasoning behind it in terms understandable to those affected. This opacity creates a tension between technical performance and democratic values. Citizens are generally expected to accept decisions when they can evaluate the rationale behind them; opaque systems complicate such evaluation. Consequently, the debate surrounding artificial intelligence should not be framed as a choice between innovation and regulation. Rather, the challenge lies in designing institutions capable of harnessing technological capabilities while preserving public trust. Excessive regulation may stifle experimentation, but unrestricted deployment may erode confidence in decision-making processes. The most sustainable approach is therefore neither unconditional acceptance nor categorical rejection, but the establishment of mechanisms that make powerful technologies both effective and answerable to society. Such mechanisms may include independent oversight, regular audits, public reporting standards, and avenues for appeal, ensuring that technological progress remains aligned with ethical principles and collective interests.

SubQuestion No : 68

Q.68 What is the structure of the passage?

- Ans**
- ☐ A. Chronological account of AI development
 - ☐ B. Historical narrative followed by prediction
 - ☒ C. Problem–solution with qualification
 - ☐ D. Comparison of competing technologies

Comprehension:

Read the following passage and answer the questions given below.

The rapid integration of artificial intelligence into professional decision-making has generated both enthusiasm and apprehension. Advocates argue that algorithmic systems can process vast quantities of information more efficiently than human beings, thereby reducing errors and enhancing productivity. In fields such as healthcare, finance, and logistics, predictive models often outperform traditional methods in identifying patterns that would otherwise remain unnoticed. However, efficiency alone does not guarantee legitimacy. Decisions that affect human lives derive their authority not merely from accuracy but also from transparency and accountability. An algorithm may correctly predict an outcome while remaining incapable of explaining the reasoning behind it in terms understandable to those affected. This opacity creates a tension between technical performance and democratic values. Citizens are generally expected to accept decisions when they can evaluate the rationale behind them; opaque systems complicate such evaluation. Consequently, the debate surrounding artificial intelligence should not be framed as a choice between innovation and regulation. Rather, the challenge lies in designing institutions capable of harnessing technological capabilities while preserving public trust. Excessive regulation may stifle experimentation, but unrestricted deployment may erode confidence in decision-making processes. The most sustainable approach is therefore neither unconditional acceptance nor categorical rejection, but the establishment of mechanisms that make powerful technologies both effective and answerable to society. Such mechanisms may include independent oversight, regular audits, public reporting standards, and avenues for appeal, ensuring that technological progress remains aligned with ethical principles and collective interests.

SubQuestion No : 69

Q.69 What is the tone of the passage?

- Ans**
- ☐ A. Sarcastic and dismissive
 - ☒ B. Analytical and balanced
 - ☐ C. Alarmist and pessimistic
 - ☐ D. Celebratory and uncritical

Comprehension:

Read the following passage and answer the questions given below.

The rapid integration of artificial intelligence into professional decision-making has generated both enthusiasm and apprehension. Advocates argue that algorithmic systems can process vast quantities of information more efficiently than human beings, thereby reducing errors and enhancing productivity. In fields such as healthcare, finance, and logistics, predictive models often outperform traditional methods in identifying patterns that would otherwise remain unnoticed. However, efficiency alone does not guarantee legitimacy. Decisions that affect human lives derive their authority not merely from accuracy but also from transparency and accountability. An algorithm may correctly predict an outcome while remaining incapable of explaining the reasoning behind it in terms understandable to those affected. This opacity creates a tension between technical performance and democratic values. Citizens are generally expected to accept decisions when they can evaluate the rationale behind them; opaque systems complicate such evaluation. Consequently, the debate surrounding artificial intelligence should not be framed as a choice between innovation and regulation. Rather, the challenge lies in designing institutions capable of harnessing technological capabilities while preserving public trust. Excessive regulation may stifle experimentation, but unrestricted deployment may erode confidence in decision-making processes. The most sustainable approach is therefore neither unconditional acceptance nor categorical rejection, but the establishment of mechanisms that make powerful technologies both effective and answerable to society. Such mechanisms may include independent oversight, regular audits, public reporting standards, and avenues for appeal, ensuring that technological progress remains aligned with ethical principles and collective interests.

SubQuestion No : 70

Q.70 Which of the following would most strengthen the author's argument?

- Ans** ☒ A. Evidence that technology adoption is increasing globally.
☒ B. Evidence that explainable AI increases public trust.
☐ C. Evidence that businesses seek higher profits.
☐ D. Evidence that computers process data rapidly.

Comprehension:

Read the passage carefully and answer the questions given below.

Knowledge is frequently equated with the accumulation of information, yet information alone does not necessarily produce understanding. In an age characterized by unprecedented access to digital resources, individuals are exposed to an overwhelming volume of facts, opinions, and interpretations. The real challenge, therefore, lies not in acquiring information but in evaluating its credibility, relevance, and implications. Critical thinking enables individuals to distinguish evidence from assertion, probability from certainty, and reasoned argument from emotional persuasion. It requires the willingness to question assumptions, examine alternative perspectives, and revise one's conclusions when confronted with convincing evidence. Such intellectual flexibility should not be confused with indecision; rather, it reflects a commitment to truth over personal preference. Conversely, the absence of critical thinking often results in the uncritical acceptance of misinformation, stereotypes, and ideological dogma, thereby weakening informed public discourse. Educational institutions consequently bear a responsibility that extends beyond the transmission of disciplinary knowledge. They must cultivate habits of inquiry, logical reasoning, and ethical judgment that enable learners to navigate increasingly complex social and technological environments. Nevertheless, critical thinking is not an innate ability acquired automatically through formal education. It develops through sustained engagement with diverse viewpoints, careful analysis of evidence, and reflective self-examination. Ultimately, a society that values critical thinking is better equipped to address complex challenges because its citizens are more likely to evaluate competing claims rationally rather than accept conclusions based solely on authority, popularity, or emotion.

SubQuestion No : 71

Q.71 In the passage, the word "cultivate" most nearly means:

- Ans** ☐ A. Optimize
☐ B. Flourish
☐ C. Abandon
☒ D. Develop

Comprehension:

Read the passage carefully and answer the questions given below.

Knowledge is frequently equated with the accumulation of information, yet information alone does not necessarily produce understanding. In an age characterized by unprecedented access to digital resources, individuals are exposed to an overwhelming volume of facts, opinions, and interpretations. The real challenge, therefore, lies not in acquiring information but in evaluating its credibility, relevance, and implications. Critical thinking enables individuals to distinguish evidence from assertion, probability from certainty, and reasoned argument from emotional persuasion. It requires the willingness to question assumptions, examine alternative perspectives, and revise one's conclusions when confronted with convincing evidence. Such intellectual flexibility should not be confused with indecision; rather, it reflects a commitment to truth over personal preference. Conversely, the absence of critical thinking often results in the uncritical acceptance of misinformation, stereotypes, and ideological dogma, thereby weakening informed public discourse. Educational institutions consequently bear a responsibility that extends beyond the transmission of disciplinary knowledge. They must cultivate habits of inquiry, logical reasoning, and ethical judgment that enable learners to navigate increasingly complex social and technological environments. Nevertheless, critical thinking is not an innate ability acquired automatically through formal education. It develops through sustained engagement with diverse viewpoints, careful analysis of evidence, and reflective self-examination. Ultimately, a society that values critical thinking is better equipped to address complex challenges because its citizens are more likely to evaluate competing claims rationally rather than accept conclusions based solely on authority, popularity, or emotion.

SubQuestion No : 72

Q.72 Which of the following is the most appropriate title for the passage?

- Ans** ✓ **A. Critical Thinking: The Foundation of Informed Judgment**
 ✗ **B. Information and the Internet**
 ✗ **C. Modern Educational Technology**
 ✗ **D. The Growth of Digital Communication**

Comprehension:

Read the passage carefully and answer the questions given below.

Knowledge is frequently equated with the accumulation of information, yet information alone does not necessarily produce understanding. In an age characterized by unprecedented access to digital resources, individuals are exposed to an overwhelming volume of facts, opinions, and interpretations. The real challenge, therefore, lies not in acquiring information but in evaluating its credibility, relevance, and implications. Critical thinking enables individuals to distinguish evidence from assertion, probability from certainty, and reasoned argument from emotional persuasion. It requires the willingness to question assumptions, examine alternative perspectives, and revise one's conclusions when confronted with convincing evidence. Such intellectual flexibility should not be confused with indecision; rather, it reflects a commitment to truth over personal preference. Conversely, the absence of critical thinking often results in the uncritical acceptance of misinformation, stereotypes, and ideological dogma, thereby weakening informed public discourse. Educational institutions consequently bear a responsibility that extends beyond the transmission of disciplinary knowledge. They must cultivate habits of inquiry, logical reasoning, and ethical judgment that enable learners to navigate increasingly complex social and technological environments. Nevertheless, critical thinking is not an innate ability acquired automatically through formal education. It develops through sustained engagement with diverse viewpoints, careful analysis of evidence, and reflective self-examination. Ultimately, a society that values critical thinking is better equipped to address complex challenges because its citizens are more likely to evaluate competing claims rationally rather than accept conclusions based solely on authority, popularity, or emotion.

SubQuestion No : 73

Q.73 What is the central theme of the passage?

- Ans** ✗ **A. Formal education alone guarantees intellectual development.**
 ✓ **B. Critical thinking is essential for evaluating information.**
 ✗ **C. Digital technology has eliminated misinformation.**
 ✗ **D. Information automatically leads to knowledge.**

Comprehension:

Read the passage carefully and answer the questions given below.

Knowledge is frequently equated with the accumulation of information, yet information alone does not necessarily produce understanding. In an age characterized by unprecedented access to digital resources, individuals are exposed to an overwhelming volume of facts, opinions, and interpretations. The real challenge, therefore, lies not in acquiring information but in evaluating its credibility, relevance, and implications. Critical thinking enables individuals to distinguish evidence from assertion, probability from certainty, and reasoned argument from emotional persuasion. It requires the willingness to question assumptions, examine alternative perspectives, and revise one's conclusions when confronted with convincing evidence. Such intellectual flexibility should not be confused with indecision; rather, it reflects a commitment to truth over personal preference. Conversely, the absence of critical thinking often results in the uncritical acceptance of misinformation, stereotypes, and ideological dogma, thereby weakening informed public discourse. Educational institutions consequently bear a responsibility that extends beyond the transmission of disciplinary knowledge. They must cultivate habits of inquiry, logical reasoning, and ethical judgment that enable learners to navigate increasingly complex social and technological environments. Nevertheless, critical thinking is not an innate ability acquired automatically through formal education. It develops through sustained engagement with diverse viewpoints, careful analysis of evidence, and reflective self-examination. Ultimately, a society that values critical thinking is better equipped to address complex challenges because its citizens are more likely to evaluate competing claims rationally rather than accept conclusions based solely on authority, popularity, or emotion.

SubQuestion No : 74

Q.74 The tone of the passage is best described as:

- Ans**
- ☐ A. Emotional and Nostalgic
 - ☒ B. Objective and Persuasive
 - ☐ C. Humorous and Satirical
 - ☐ D. Cynical and Critical

Comprehension:

Read the passage carefully and answer the questions given below.

Knowledge is frequently equated with the accumulation of information, yet information alone does not necessarily produce understanding. In an age characterized by unprecedented access to digital resources, individuals are exposed to an overwhelming volume of facts, opinions, and interpretations. The real challenge, therefore, lies not in acquiring information but in evaluating its credibility, relevance, and implications. Critical thinking enables individuals to distinguish evidence from assertion, probability from certainty, and reasoned argument from emotional persuasion. It requires the willingness to question assumptions, examine alternative perspectives, and revise one's conclusions when confronted with convincing evidence. Such intellectual flexibility should not be confused with indecision; rather, it reflects a commitment to truth over personal preference. Conversely, the absence of critical thinking often results in the uncritical acceptance of misinformation, stereotypes, and ideological dogma, thereby weakening informed public discourse. Educational institutions consequently bear a responsibility that extends beyond the transmission of disciplinary knowledge. They must cultivate habits of inquiry, logical reasoning, and ethical judgment that enable learners to navigate increasingly complex social and technological environments. Nevertheless, critical thinking is not an innate ability acquired automatically through formal education. It develops through sustained engagement with diverse viewpoints, careful analysis of evidence, and reflective self-examination. Ultimately, a society that values critical thinking is better equipped to address complex challenges because its citizens are more likely to evaluate competing claims rationally rather than accept conclusions based solely on authority, popularity, or emotion.

SubQuestion No : 75

Q.75 Which of the following can be inferred from the passage?

- Ans**
- ☐ A. Popular opinions are generally more reliable than evidence.
 - ☒ B. Access to information alone does not ensure informed decision-making.
 - ☐ C. Educational institutions should focus only on vocational skills.
 - ☐ D. Critical thinking discourages people from changing their opinions.

Comprehension:

Read the passage carefully and answer the questions given below.

Literature is often regarded as a reflection of society, yet its significance extends far beyond the mere representation of social reality. Unlike historical or scientific writing, literary texts are not primarily concerned with establishing factual accuracy. Instead, they seek to explore emotional, psychological, and philosophical truths through imagination, symbolism, and narrative. Consequently, works of literature frequently reveal dimensions of human experience that cannot be adequately expressed through empirical observation alone. Myths, epics, novels, dramas, and poetry preserve cultural values while simultaneously questioning accepted beliefs and social conventions. This dual function enables literature to serve both as a repository of collective memory and as a catalyst for intellectual and moral transformation. Moreover, literary interpretations are rarely fixed, as readers belonging to different historical periods or cultural contexts often derive distinct meanings from the same text. A classical epic, for instance, may be appreciated as a heroic narrative in one era and examined as a critique of power, gender, or identity in another. Such interpretative diversity does not diminish the literary work; rather, it demonstrates its enduring relevance. Nevertheless, meaningful interpretation requires close attention to language, context, symbolism, and authorial intent. Ignoring these elements may result in oversimplified or misleading readings. Thus, literature should not be approached merely as a source of entertainment but as an intellectual discipline that cultivates critical thinking, ethical reflection, and cultural understanding while encouraging readers to engage with the complexities of human existence.

SubQuestion No : 76

Q.76 Which of the following best summarizes the passage?

✓ **A. Literature goes beyond reflecting reality by exploring deeper human experiences, preserving**

Ans **cultural values, encouraging multiple interpretations, and promoting critical and ethical understanding.**

✗ **B. Literature mainly reflects society by recording historical events, preserving traditions, and providing readers with factual knowledge about different cultures and civilizations.**

✗ **C. Literature should always be interpreted according to the author's intended meaning because alternative interpretations often ignore the original purpose and historical context.**

✗ **D. Literature differs from scientific writing because it depends entirely on imagination, avoids social issues, and exists primarily to entertain readers through fictional narratives.**

Comprehension:

Read the passage carefully and answer the questions given below.

Literature is often regarded as a reflection of society, yet its significance extends far beyond the mere representation of social reality. Unlike historical or scientific writing, literary texts are not primarily concerned with establishing factual accuracy. Instead, they seek to explore emotional, psychological, and philosophical truths through imagination, symbolism, and narrative. Consequently, works of literature frequently reveal dimensions of human experience that cannot be adequately expressed through empirical observation alone. Myths, epics, novels, dramas, and poetry preserve cultural values while simultaneously questioning accepted beliefs and social conventions. This dual function enables literature to serve both as a repository of collective memory and as a catalyst for intellectual and moral transformation. Moreover, literary interpretations are rarely fixed, as readers belonging to different historical periods or cultural contexts often derive distinct meanings from the same text. A classical epic, for instance, may be appreciated as a heroic narrative in one era and examined as a critique of power, gender, or identity in another. Such interpretative diversity does not diminish the literary work; rather, it demonstrates its enduring relevance. Nevertheless, meaningful interpretation requires close attention to language, context, symbolism, and authorial intent. Ignoring these elements may result in oversimplified or misleading readings. Thus, literature should not be approached merely as a source of entertainment but as an intellectual discipline that cultivates critical thinking, ethical reflection, and cultural understanding while encouraging readers to engage with the complexities of human existence.

SubQuestion No : 77

Q.77 Which of the following is the most appropriate title for the passage?

Ans ✗ **A. Scientific Writing and Literature**

✗ **B. The Evolution of Literature**

✗ **C. The Evolution of Poetry**

✓ **D. Literature: Beyond Entertainment and Representation**

Comprehension:

Read the passage carefully and answer the questions given below.

Literature is often regarded as a reflection of society, yet its significance extends far beyond the mere representation of social reality. Unlike historical or scientific writing, literary texts are not primarily concerned with establishing factual accuracy. Instead, they seek to explore emotional, psychological, and philosophical truths through imagination, symbolism, and narrative. Consequently, works of literature frequently reveal dimensions of human experience that cannot be adequately expressed through empirical observation alone. Myths, epics, novels, dramas, and poetry preserve cultural values while simultaneously questioning accepted beliefs and social conventions. This dual function enables literature to serve both as a repository of collective memory and as a catalyst for intellectual and moral transformation. Moreover, literary interpretations are rarely fixed, as readers belonging to different historical periods or cultural contexts often derive distinct meanings from the same text. A classical epic, for instance, may be appreciated as a heroic narrative in one era and examined as a critique of power, gender, or identity in another. Such interpretative diversity does not diminish the literary work; rather, it demonstrates its enduring relevance. Nevertheless, meaningful interpretation requires close attention to language, context, symbolism, and authorial intent. Ignoring these elements may result in oversimplified or misleading readings. Thus, literature should not be approached merely as a source of entertainment but as an intellectual discipline that cultivates critical thinking, ethical reflection, and cultural understanding while encouraging readers to engage with the complexities of human existence.

SubQuestion No : 78

Q.78 What is the central theme of the passage?

- Ans**
- ✓ **A. Literary works promote critical thinking.**
 - ✗ **B. Scientific texts are more valuable than literary texts.**
 - ✗ **C. Literary interpretation should remain unchanged over time.**
 - ✗ **D. Literature primarily records historical events.**

Comprehension:

Read the passage carefully and answer the questions given below.

Literature is often regarded as a reflection of society, yet its significance extends far beyond the mere representation of social reality. Unlike historical or scientific writing, literary texts are not primarily concerned with establishing factual accuracy. Instead, they seek to explore emotional, psychological, and philosophical truths through imagination, symbolism, and narrative. Consequently, works of literature frequently reveal dimensions of human experience that cannot be adequately expressed through empirical observation alone. Myths, epics, novels, dramas, and poetry preserve cultural values while simultaneously questioning accepted beliefs and social conventions. This dual function enables literature to serve both as a repository of collective memory and as a catalyst for intellectual and moral transformation. Moreover, literary interpretations are rarely fixed, as readers belonging to different historical periods or cultural contexts often derive distinct meanings from the same text. A classical epic, for instance, may be appreciated as a heroic narrative in one era and examined as a critique of power, gender, or identity in another. Such interpretative diversity does not diminish the literary work; rather, it demonstrates its enduring relevance. Nevertheless, meaningful interpretation requires close attention to language, context, symbolism, and authorial intent. Ignoring these elements may result in oversimplified or misleading readings. Thus, literature should not be approached merely as a source of entertainment but as an intellectual discipline that cultivates critical thinking, ethical reflection, and cultural understanding while encouraging readers to engage with the complexities of human existence.

SubQuestion No : 79

Q.79 The tone of the passage is best described as:

- Ans**
- ✗ **A. Emotional and Sentimental**
 - ✗ **B. Pessimistic and Cynical**
 - ✗ **C. Satirical and Critical**
 - ✓ **D. Appreciative and Analytical**

Comprehension:

Read the passage carefully and answer the questions given below.

Literature is often regarded as a reflection of society, yet its significance extends far beyond the mere representation of social reality. Unlike historical or scientific writing, literary texts are not primarily concerned with establishing factual accuracy. Instead, they seek to explore emotional, psychological, and philosophical truths through imagination, symbolism, and narrative. Consequently, works of literature frequently reveal dimensions of human experience that cannot be adequately expressed through empirical observation alone. Myths, epics, novels, dramas, and poetry preserve cultural values while simultaneously questioning accepted beliefs and social conventions. This dual function enables literature to serve both as a repository of collective memory and as a catalyst for intellectual and moral transformation. Moreover, literary interpretations are rarely fixed, as readers belonging to different historical periods or cultural contexts often derive distinct meanings from the same text. A classical epic, for instance, may be appreciated as a heroic narrative in one era and examined as a critique of power, gender, or identity in another. Such interpretative diversity does not diminish the literary work; rather, it demonstrates its enduring relevance. Nevertheless, meaningful interpretation requires close attention to language, context, symbolism, and authorial intent. Ignoring these elements may result in oversimplified or misleading readings. Thus, literature should not be approached merely as a source of entertainment but as an intellectual discipline that cultivates critical thinking, ethical reflection, and cultural understanding while encouraging readers to engage with the complexities of human existence.

SubQuestion No : 80

Q.80 Which of the following can be inferred from the passage?

- Ans ☒ A. Literature is less valuable than historical writing because it is fictional.
☒ B. Literary texts possess enduring relevance.
☒ C. Every reader interprets literature in exactly the same way.
☒ D. Literature should be studied independently of its language and context.

Q.81 What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$9 \div 3 + 48 \times 4 - 10 = ?$$

- Ans ☒ A. 32
☒ B. 28
☒ C. 25
☒ D. 21

Q.82 Seven boxes, G, H, I, J, N, O and P, are kept one over the other, but not necessarily in the same order. Only three boxes are kept between H and O. I is kept immediately below O. Only one box is kept between H and G. O is kept at some place above G. N is kept at one of the places above P. Only three boxes are kept above G. J is not kept immediately above or below H.

How many boxes are kept between P and G?

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

Q.83 Each of P, Q, R, S, T, U and V has an exam on a different day of a week, starting from Monday and ending on Sunday of the same week. Only four people have exams after R. Only four people have exams before U. S has exam immediately after T but not on Tuesday. Q has exam after V but not on Thursday. How many people have exams between Q and P?

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

Q.84 If 'A' stands for '÷', 'B' stands for 'x', 'C' stands for '+' and 'D' stands for '-', what will come in place of question mark '?' in the following equation?
16 D 36 A 2 C 5 B 9 = ?

- Ans ☒ A. 41
☒ B. 40
☒ C. 42
☒ D. 43

Q.85 In a certain code language, 'BARE' is coded as '9358' and 'REAL' is coded as '9438'. What is the code for 'B' in the given code language?

- Ans**
- ☒ A. 3
 - ☒ B. 9
 - ☒ C. 5
 - ☒ D. 8

Q.86 What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?
 $34 + 13 \div 3 - 72 \times 8 = ?$

- Ans**
- ☒ A. 18
 - ☒ B. 4
 - ☒ C. 24
 - ☒ D. 11

Q.87 In the following series, only one letter cluster is wrong. Find out the wrong letter cluster.
CFB HKG MPL PSQ WZV BEA

- Ans**
- ☒ A. PSQ
 - ☒ B. HKG
 - ☒ C. MPL
 - ☒ D. WZV

Q.88 A, B, C, D, Q, R, S and T are sitting around a square table facing the centre of the table. Some of them are sitting at the corners while some are sitting at the exact centre of the sides.

Only three people sit between B and A. B sits to the immediate right of C. T sits second to the right of C. Only three people sit between R and C when counted from the right of C. C sits at one of the corners. D sits to the immediate left of R. Q is not an immediate neighbor of C.

How many people sit between S and T when counted from the left of S?

- Ans**
- ☒ A. One
 - ☒ B. Two
 - ☒ C. Three
 - ☒ D. Four

Q.89 Eight friends, J, K, L, M, N, O, P and Q, are sitting around a square table facing outside (i.e. opposite to the centre). Four of them are sitting at the corners of the table and four are sitting at the centre of the sides. J sits at a corner. Only three people sit between N and J. O is an immediate neighbour of J. P sits immediately to the right of O. L sits at a corner. K sits immediately to the left of L. M is an immediate neighbour of N. Who sits to the immediate left of J?

- Ans**
- ☒ A. L
 - ☒ B. M
 - ☒ C. O
 - ☒ D. Q

Q.90 What should come in place of the question mark (?) in the given series?

4320, 4644, 4355, 4611, 4386, 4582, ?

- Ans**
- ☒ A. 4413
 - ☒ B. 4436
 - ☒ C. 4421
 - ☒ D. 4302

Q.91 Based on the English alphabetical order, three of the following four are alike in a certain way and thus form a group. Which is the one that does not belong to that group? (Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster.)

- Ans**
- ☒ A. NUP
 - ☒ B. JQL
 - ☒ C. LSN
 - ☒ D. PWS

Q.92 Select the pair which follows the same pattern as that followed by the two pairs given below. Both pairs follow the same pattern.
CZY-XUT
IFE-DAZ

- Ans**
- ☒ A. RON-LJH
 - ☒ B. RNL-MJI
 - ☒ C. RON-MJI
 - ☒ D. RNL-LIH

Q.93 Seven boxes P,O,S, T,M,A and N are kept one over the other but not necessarily in the same order. Only three boxes are kept below M. Only two boxes are kept between M and P. Only O is kept above N. A is kept at some place below T and at some place above S. Which box is kept at second position from the bottom?

- Ans**
- ☒ A. A
 - ☒ B. S
 - ☒ C. P
 - ☒ D. M

Q.94 Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?

JQI 11, MNM 4, PKQ -5, SHU -16, ?

- Ans**
- ☒ A. KIP -45
 - ☒ B. VEY -29
 - ☒ C. KPU -34
 - ☒ D. GHT -32

Q.95 2 is related to 8 following a certain logic. Following the same logic, 25 is related to 1250. To which of the given options is 30 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 etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans**
- ☒ A. 3600
 - ☒ B. 1500
 - ☒ C. 900
 - ☒ D. 1800

Q.96 Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which is the letter-cluster pair that does NOT belong to that group? (Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)

- Ans**
- ☒ A. FK - IK
 - ☒ B. KP - NP
 - ☒ C. YD - BD
 - ☒ D. CH - EH

Q.97 BSOL is related to XUKN in a certain way based on the English alphabetical order. In the same way, TWGP is related to PYCR. To which of the following is LAYT related, following the same logic?

- Ans**
- ☒ A. HCUV
 - ☐ B. GDVU
 - ☐ C. IBTU
 - ☐ D. GBVW

Q.98 AMFU is related to WHBP in a certain way based on the English alphabetical order. In the same way, SCXK is related to OXTF. To which of the following is KSPA related, following the same logic?

- Ans**
- ☐ A. HNKU
 - ☐ B. FOLW
 - ☒ C. GNLV
 - ☐ D. GOMW

Q.99 If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 47521836, how many digits will appear more than once in the new number thus formed?

- Ans**
- ☐ A. None
 - ☐ B. One
 - ☐ C. Two
 - ☒ D. Three

Q.100 Based on the English alphabetical order, three of the following four are alike in a certain way and thus form a group. Which is the one that does not belong to that group? (Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster.)

- Ans**
- ☒ A. TVY
 - ☐ B. HKM
 - ☐ C. LOQ
 - ☐ D. CFH



रेलवे भर्ती बोर्ड / RAILWAY RECRUITMENT BOARD

सी ई एन - ०३/२०२६ - CEN - 03/2026

सेक्शन कंट्रोलर की भर्ती / Recruitment of Section Controller



Test Date	13/10/2026
Test Time	2:00 PM - 4:00 PM
Subject	RRB SECTION CONTROLLER CBT 1

*** Note**

Correct Answer will carry 1 mark per Question.

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

- Options shown in green color with a tick icon are correct.
- Chosen option on the right of the question indicates the option selected by the candidate.

Section : RRB SECTION CONTROLLER CBT 1

- Q.1** The odometer of a car reads 12050 km at the start of a trip and 12590 km at its end. If the trip took 6 hours, then the average speed of car in m/sec is:

Ans ☒ A. 30
☒ B. 25
☒ C. 20
☒ D. 33

- Q.2** The table below shows the number of books sold by four stores from Monday to Thursday.

Store	Monday	Tuesday	Wednesday	Thursday
A	15	18	20	22
B	12	14	16	18
C	10	13	15	17
D	11	15	18	21

The manager plans to reward the store that recorded the highest percentage increase in book sales from Monday to Thursday. Which store should receive the reward?

Ans ☒ A. B
☒ B. C
☒ C. D
☒ D. A

- Q.3** An article is marked at ₹5,000. A shopkeeper offers three successive discounts on the market price. If the first and second discounts are 15% and 5%, respectively, what is the third discount rate if the customer pays ₹3,230 for the article?

Ans ☒ A. 10%
☒ B. 20%
☒ C. 18%
☒ D. 15%

Q.4 What is the smallest natural number which, when divided by 6, 8, and 10, leaves a remainder of 3 in each case?

- Ans**
- ☐ A. 131
 - ☐ B. 117
 - ☒ C. 123
 - ☐ D. 243

Q.5 If the sum of the first n natural numbers is 465 and the sum of the first $(n-5)$ natural numbers is 325, what is the value of n ?

- Ans**
- ☐ A. 20
 - ☐ B. 40
 - ☐ C. 10
 - ☒ D. 30

Q.6 Given the system of equations $2x + 3y = 7$ and $4x + ky = 14$, for which value of k will the system have infinitely many solutions?

- Ans**
- ☐ A. 9
 - ☐ B. 7
 - ☐ C. 3
 - ☒ D. 6

Q.7 If $x : 18 :: 7 : 9$, then the value of x is ____.

- Ans**
- ☒ A. 14
 - ☐ B. 18
 - ☐ C. 12
 - ☐ D. 16

Q.8 A tourist bus charges a fixed boarding charge per trip, which is the same irrespective of the number or type of tickets purchased. The fare for a half ticket is 60% of the fare for a full ticket. For a particular trip, the total cost of one full ticket and one half ticket, including the boarding charge, is ₹2,400, and the total cost of two full tickets and one half ticket, including the same boarding charge, is ₹3,300. Find the fare of one full ticket and the boarding charge.

- Ans**
- ☐ A. ₹1,200 and ₹1,260
 - ☐ B. ₹800 and ₹860
 - ☐ C. ₹1,000 and ₹1,060
 - ☒ D. ₹900 and ₹960

Q.9 Two fair coins are tossed simultaneously. What is the probability of getting exactly one head?

- Ans**
- ☒ A. $\frac{1}{2}$
 - ☐ B. $\frac{2}{3}$
 - ☐ C. $\frac{1}{4}$
 - ☐ D. $\frac{3}{4}$

Q.10 A field is in the form of an isosceles triangle whose equal sides are 37 m each and the third side is 24 m. What is its area (in m^2)?

- Ans**
- ☒ A. 420
 - ☐ B. 460
 - ☐ C. 400
 - ☐ D. 440

Q.11 A university research project requires the sum of the first n terms of an arithmetic progression (AP), where the first term is 5, and the common difference is 3. If the sum equals 185, which value of n satisfies this scenario?

- Ans**
- ☒ A. 8
 - ☒ B. 12
 - ☒ C. 10
 - ☒ D. 15

Q.12 The marks obtained by 9 students in a class are:
42, 38, 45, 40, 35, 50, 48, 37, 44.
What is the median of the marks?

- Ans**
- ☒ A. 42
 - ☒ B. 40
 - ☒ C. 43
 - ☒ D. 44

Q.13 Which of the following is the 8th term of an arithmetic progression with first term 7 and common difference -2?

- Ans**
- ☒ A. 1
 - ☒ B. 3
 - ☒ C. 5
 - ☒ D. -7

Q.14 A tank is filled by two inlet pipes, A and B, and drained by a pipe C. Pipe A can fill the tank alone in 12 hours, pipe B can fill it alone in 18 hours, and pipe C can empty a full tank in 9 hours. All three pipes are opened at the same time, but pipe A is closed after 5 hours, and pipe C is closed 2 hours after pipe A is closed, while pipe B continues working without interruption. What is the total time required to completely fill the tank?

- Ans**
- ☒ A. 24.5 hours
 - ☒ B. 23.5 hours
 - ☒ C. 25.5 hours
 - ☒ D. 22.5 hours

Q.15 A shopkeeper claims to sell rock salt at ₹37 per kg, which is also his cost price. However, instead of delivering 1,196 g, he supplies only 598 g while charging the same amount. What is his overall profit percentage?

- Ans**
- ☒ A. 50%
 - ☒ B. 75%
 - ☒ C. 150%
 - ☒ D. 100%

Q.16 If two interior angles on the same side of a transversal intersecting two parallel lines are in the ratio 4:5, then what is the smaller angle?

- Ans**
- ☒ A. 54°
 - ☒ B. 72°
 - ☒ C. 60°
 - ☒ D. 80°

- Q.17** Manjit earns a salary of ₹20,000 per month. He spends ₹5,500 on house rent and ₹3,000 on bills every month, and saves the remaining amount. Find his total savings (in ₹) in one year, given that in the month of his birthday, he spends his entire monthly savings on the birthday celebration.
- Ans** ☒ A. 1,15,000
☒ B. 1,03,500
☒ C. 1,38,000
☒ D. 1,26,500
- Q.18** A college wants to calculate the average fee paid per student, considering that 30 students pay ₹20,000 each, 50 students pay ₹25,000 each, and 20 students pay ₹18,000 each. What is the weighted arithmetic mean fee per student?
- Ans** ☒ A. ₹20,000
☒ B. ₹25,000
☒ C. ₹24,000
☒ D. ₹22,100
- Q.19** Which of the following ordered triples (x, y, z) satisfies all three equations: $x + 2y + 3z = 14$, $2x - y + z = 3$, $x + y - z = 3$?
- Ans** ☒ A. (1,4,2)
☒ B. (2,2,3)
☒ C. (2,3,2)
☒ D. (3,1,2)
- Q.20** Find the median of the values of 13, 9, 18, 11, 8, 6, 15, 7, 2, 5.
- Ans** ☒ A. 17
☒ B. 8
☒ C. 8.5
☒ D. 9
- Q.21** A circle of radius 7 cm is inscribed in a square. What is the area (in cm^2) of the region inside the square but outside the circle?
(Take $\pi = \frac{22}{7}$)
- Ans** ☒ A. 42
☒ B. 77
☒ C. 56
☒ D. 63
- Q.22** A manufacturer fixes his selling price at 16% over the cost of production. If the cost of production goes up by 16%, and the manufacturer raises his selling price by 25%, find the profit percentage.
- Ans** ☒ A. 25%
☒ B. 23%
☒ C. 28%
☒ D. 26%
- Q.23** If the average of six numbers is 24 and five of them are 18, 20, 25, 28, and 30, what is the sixth number?
- Ans** ☒ A. 18
☒ B. 26
☒ C. 29
☒ D. 23

Q.24 Simplify: $x(6x - 9) + 3(x^2 - 5) + 12$

- Ans
- ☐ A. $9x^2 - 9x + 3$
 - ☐ B. $9x^2 + 9x + 3$
 - ☐ C. $-9x^2 - 9x + 3$
 - ☒ D. $9x^2 - 9x - 3$

Q.25 If 10% of $x = 324$, then x is equal to:

- Ans
- ☐ A. 6480
 - ☐ B. 3340
 - ☒ C. 3240
 - ☐ D. 6580

Q.26 A cold storage unit is built in the shape of a cuboid with internal dimensions of $12\text{ m} \times 8\text{ m} \times 5\text{ m}$. The unit is initially empty. Later, identical cubical ice blocks of side 2 m are stored inside it. What is the maximum number of such ice blocks that can be completely accommodated in the storage unit?

- Ans
- ☐ A. 54
 - ☒ B. 48
 - ☐ C. 46
 - ☐ D. 64

Q.27 Simplify: $\sqrt{121} + \sqrt{324}$

- Ans
- ☐ A. 27
 - ☒ B. 29
 - ☐ C. 28
 - ☐ D. 26

Q.28 Simplify: $15\% \text{ of } 400 + 0.25 \text{ of } 800 - 30$

- Ans
- ☐ A. 260
 - ☐ B. 245
 - ☐ C. 250
 - ☒ D. 230

Q.29 If the ratio of x to y is $3 : 4$ and the sum of x and y is 56 , what is the value of x ?

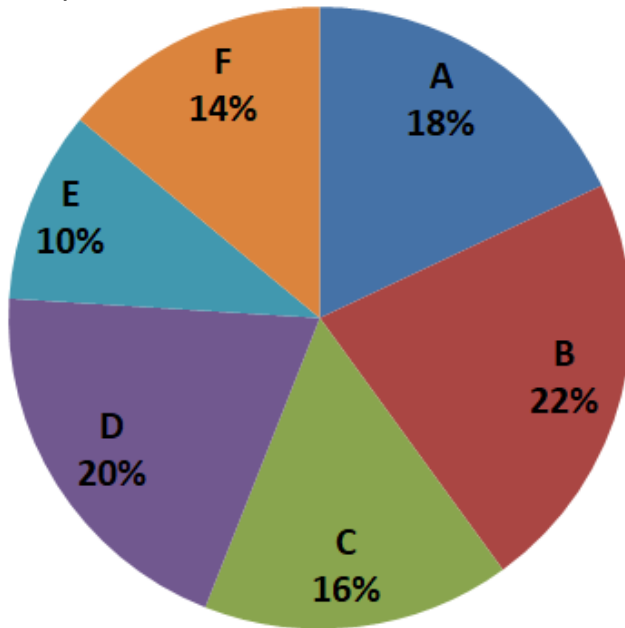
- Ans
- ☒ A. 24
 - ☐ B. 32
 - ☐ C. 18
 - ☐ D. 14

Q.30 A bank's data for loan approvals in 2022 is given in the table below. If only branches that approved at least 100 home loans and at least 60 education loans are considered, what is the average number of auto loans approved by these branches?

Branch	Home Loans	Auto Loans	Education Loans
Alpha	120	90	60
Beta	140	110	70
Gamma	100	80	40
Delta	130	100	65

- Ans
- ☐ A. 95
 - ☐ B. 105
 - ☐ C. 110
 - ☒ D. 100

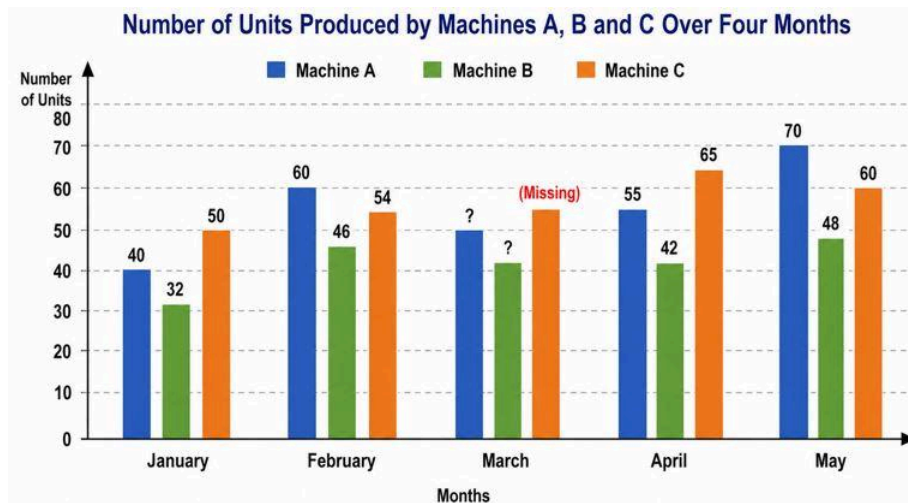
- Q.31** The following chart shows the total number of students in 6 different colleges. The percentage of girls in colleges are as follows: A=54%, B=48%, C=60%, D=50%, E=48%, F=55%



If the total number of students in all six colleges is 80000, then the average number of boys (rounded off to the nearest integer) in the colleges A, B, and D is:

- Ans** ☒ A. 7925
☒ B. 7989
☒ C. 7929
☒ D. 7965

- Q.32** The multiple bar graph shows the production of Machines A, B, and C over four months.



In March, Machine B produced 8 fewer units than in February.
Machine A produced 18 more units than Machine B in March.
The total production of all three machines in March was 156 units.
Find the production of Machine C in March.

- Ans** ☒ A. 129
☒ B. 38
☒ C. 62
☒ D. 58

- Q.33** The LCM of the numbers 14, 91 and 162 is:

- Ans** ☒ A. 14472
☒ B. 14742
☒ C. 13984
☒ D. 15642

Q.34 Find the sum of the cubes of natural numbers from 15 to 24.

- Ans ☒ A. 78,975
☐ B. 90,000
☐ C. 75,600
☐ D. 86,625

Q.35 A postal drone leaves Depot X at 7:45 AM, flying at a constant 36 kilometers per hour. At what time will the drone have covered exactly 54 kilometers from Depot X?

- Ans ☐ A. 8:45 AM
☐ B. 9:00 AM
☒ C. 9:15 AM
☐ D. 9:30 AM

Q.36 A car travels a fixed distance. If its speed varies directly with the cube root of the engine power, by what percentage does the travel time decrease if the engine power increases from 64 kW to 216 kW? [Give your answer correct to two places after decimal.]

- Ans ☐ A. 35.33%
☐ B. 38.33%
☐ C. 23.33%
☒ D. 33.33%

Q.37 Students of a class are made to stand in rows. If 4 students are extra in each row, there would be 5 less rows. If two students are less in each row, there would be 4 more rows. Find the ratio between the number of rows and the number of students in the class.

- Ans ☐ A. 12 : 17
☒ B. 1 : 12
☐ C. 3 : 11
☐ D. 1 : 8

Q.38 A card is drawn from a deck and not replaced. What is the probability that the first card is a spade and the second card is a diamond?

- Ans ☐ A. $\frac{13}{221}$
☐ B. $\frac{1}{16}$
☐ C. $\frac{1}{15}$
☒ D. $\frac{13}{204}$

Q.39 The ratio of A's salary to B's salary is 5 : 8. If A's salary is ₹35,000, what is B's salary?

- Ans ☒ A. ₹56,000
☐ B. ₹54,000
☐ C. ₹58,000
☐ D. ₹52,000

Q.40 A shopkeeper claims to sell rock salt at ₹16 per kg, while its cost price is ₹20 per kg. However, instead of delivering 1,010 g, he supplies only 505 g for the same price. What is his overall percentage profit?

- Ans ☐ A. 30%
☐ B. 120%
☒ C. 60%
☐ D. 100%

Q.41 Three bells ring at intervals of 8, 12, and 15 minutes, respectively. If they all ring together at 7:00 a.m., when will they next ring together?

- Ans**
- ☐ A. 8:20 a.m.
 - ☐ B. 8:15 a.m.
 - ☐ C. 7:30 a.m.
 - ☒ D. 9:00 a.m.

Q.42 A can do a piece of work in 78 hours; B and C together can do it in 60 hours, while A and C together can do it in 39 hours. How long (in hours) will B alone take to do it?

- Ans**
- ☐ A. 261
 - ☒ B. 260
 - ☐ C. 259
 - ☐ D. 262

Q.43 A data set has values: 100, 110, 120, 130, 140. If you choose 120 as the assumed mean, what is the sum of deviations from the assumed mean?

- Ans**
- ☐ A. 20
 - ☒ B. 0
 - ☐ C. 10
 - ☐ D. -20

Q.44 A factory melts a solid metal cuboid block of dimensions 12 cm × 10 cm × 8 cm and recasts it into identical cylindrical rods, each having a radius of 1 cm and a height of 4 cm. During the process of melting and casting, 10% of the metal is lost due to wastage. How many complete cylindrical rods can be produced from the remaining metal? [Use $\pi = 3.14$]

- Ans**
- ☐ A. 70
 - ☐ B. 62
 - ☒ C. 68
 - ☐ D. 64

Q.45 In a workforce survey, 40% of the employees are engineers and the rest are designers and analysts in the ratio 3 : 2. What is the ratio of engineers to analysts in the company?

- Ans**
- ☐ A. 5 : 6
 - ☐ B. 2 : 3
 - ☒ C. 5 : 3
 - ☐ D. 3 : 2

Q.46 In a 2000 m race, Runner C starts 260 m ahead of Runner A and also starts 50 seconds earlier. In a 1000 m race, Runner A beats Runner B by 200 m or 25 seconds. Runner B gives Runner C a head start of 100 m in a 1000 m race and still beats C by 25 seconds. By how many meters will Runner A beat Runner C in the 2000 m race?

- Ans**
- ☐ A. 180 meters
 - ☐ B. 250 meters
 - ☐ C. 150 meters
 - ☒ D. 240 meters

- Q.47 A solid wooden block is shaped like a perfect hemisphere with a radius of 21 cm. The entire outer surface, including the flat circular base, must be painted. If the rate of painting is ₹250 per 100 square centimeters, what is the total cost of painting the block?

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

Ans ☒ A. ₹10,395

☐ B. ₹8,425

☐ C. ₹9,355

☐ D. ₹11,245

- Q.48 A line graph displays the monthly rainfall (in mm) for City Z during the first six months of the year as follows:



What is the ratio of the excess rainfall in the wettest month above the average monthly rainfall to the deficit rainfall in the driest month below the average monthly rainfall?

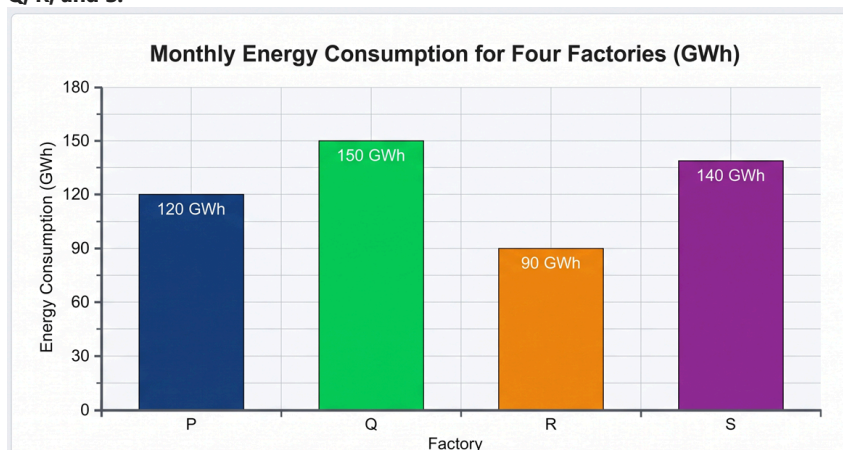
Ans ☐ A. 1:2

☐ B. 2:1

☒ C. 1:1

☐ D. 3:2

- Q.49 The graph below shows the monthly energy consumption (in GWh) for four factories: P, Q, R, and S.



By what percentage is factory Q's consumption higher than that of factory R (rounded off to the nearest integer)?

Ans ☐ A. 33%

☐ B. 50%

☒ C. 67%

☐ D. 75%

Q.50 Let p and q be two distinct prime numbers greater than 3. A number N is defined as $N = p^2q + pq^2$. Which of the following statements is always true?

- Ans
- ☒ A. N is divisible by $p - q$
 - ☒ B. N is exactly divisible by the product of p and q
 - ☒ C. N is a prime number
 - ☒ D. N is coprime with both p and q

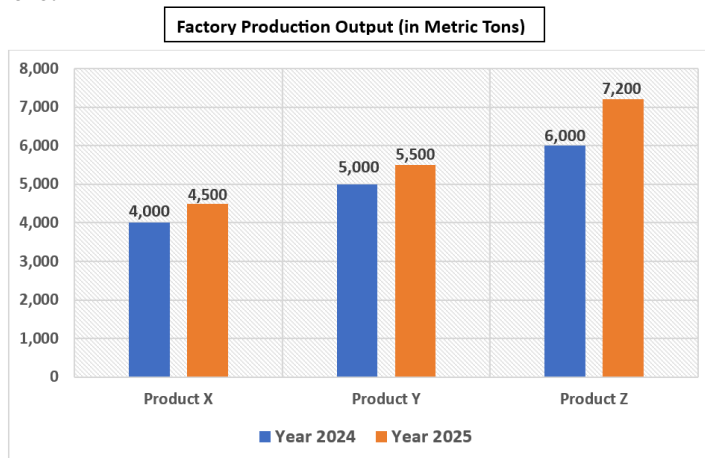
Q.51 A boat travels between points A and B. The speed of the boat in still water remains constant. The total time taken for the round trip is 9 hours. If the speed of the stream increases by 50%, the round-trip time increases by 1 hour 40 minutes. Find the ratio of the boat's speed in still water to the original speed of the stream.

- Ans
- ☒ A. 4 : 1
 - ☒ B. 2 : 1
 - ☒ C. 3 : 1
 - ☒ D. 5 : 2

Q.52 A chord AB is drawn in a circle with centre O and radius 7 cm. If the shortest distance between centre and chord is 5 cm, then the length of chord AB is:

- Ans
- ☒ A. $4\sqrt{6}$ cm
 - ☒ B. $3\sqrt{6}$ cm
 - ☒ C. $5\sqrt{6}$ cm
 - ☒ D. $2\sqrt{6}$ cm

Q.53 The following multiple bar graph tracks the outputs of Products X, Y, and Z. In 2026, the output of Product X grows by 20% over its 2025 level, while Product Z's output falls by 25% from its 2025 level. What is the ratio of Product X's output to Product Z's output in 2026?



- Ans
- ☒ A. 5 : 4
 - ☒ B. 1 : 1
 - ☒ C. 3 : 4
 - ☒ D. 4 : 5

Q.54 A and B start a café by investing ₹1,800 and ₹6,800, respectively. At the end of one year, the café earns a profit of ₹8,600. A receives his share of the profit along with a separate salary, not paid out of the profit, for managing the café. If A receives a total of ₹3,000, what is the amount (in ₹) of his salary?

- Ans
- ☒ A. 1,204
 - ☒ B. 1,200
 - ☒ C. 1,197
 - ☒ D. 1,203

Q.55 In what ratio must a grocer mix two varieties of rice worth ₹42 per kg and ₹115 per kg so that if he sells the mixture at ₹120 per kg he may gain 25%?

- Ans ☒ A. 19:54
☐ B. 23:55
☐ C. 21:59
☐ D. 16:55

Q.56 A shopkeeper marks a shirt at ₹1,224. He offers a discount of 25% on the marked price. What is the selling price of the shirt?

- Ans ☐ A. ₹900
☐ B. ₹910
☐ C. ₹915
☒ D. ₹918

Q.57 In a class, the marks of five students are: 72, 85, 68, 90, and 77. If the highest mark increases to 95, how does the range change?

- Ans ☐ A. Decreases by 5
☐ B. Increases by 3
☒ C. Increases by 5
☐ D. No change

Q.58 A rectangular park has dimensions of 50 m by 30 m. A uniform path of width 5 m is constructed inside the park along all four sides. If the cost of fencing the perimeter of the remaining inner rectangular region is ₹50 per metre, find the total cost of fencing.

- Ans ☒ A. ₹6,000
☐ B. ₹5,000
☐ C. ₹4,000
☐ D. ₹7,000

Q.59 The average height of a group of 5 students is 165 cm. Two more students of heights 133 cm and 194 cm join the group and 4 students of average height 106 cm leave the group. What is the new average height (in cm, rounded off to 1 decimal place) of the group after the changes?

- Ans ☒ A. 242.7
☐ B. 244.7
☐ C. 245.7
☐ D. 247.3

Q.60 Simplify: $81^{\frac{3}{4}} \times 27^{\frac{2}{3}} \div 9^{\frac{5}{2}}$

- Ans ☐ A. 0
☒ B. 1
☐ C. 3
☐ D. 2

Q.61 I is the mother of J. J is the sister of M. N is the father of T. T is the son of M. How is I related to T?

- Ans ☐ A. Sister
☒ B. Mother's mother
☐ C. Mother's sister
☐ D. Mother

Q.62 This question is based on the following words

RAM BOX HUG JET

If in each of the words, each letter is changed to the letter immediately following it in the English alphabetical order, how many words thus formed will have no vowel?

- Ans**
- ☒ A. Two
 - ☐ B. One
 - ☐ C. Four
 - ☐ D. Three

Q.63 Refer to the following letter series and answer the question. Counting to be done from left to right only.

(Left) M Q Q Z K D Y E D N O B N B X F E M F T T (Right)

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

- Ans**
- ☐ A. None
 - ☐ B. One
 - ☐ C. Two
 - ☒ D. Three

Q.64 If 2 December 2010 was Thursday, then what was the day of the week on 20 December 2021?

- Ans**
- ☐ A. Sunday
 - ☐ B. Thursday
 - ☐ C. Tuesday
 - ☒ D. Monday

Q.65 Each vowel in the word VENTURE is changed to the letter immediately preceding it in the English alphabetical order and each consonant is changed to the second letter following it in the English alphabetical order. How many letters will appear exactly twice in the group of letters thus formed?

- Ans**
- ☒ A. Two
 - ☐ B. Zero
 - ☐ C. One
 - ☐ D. Three

Comprehension:

Read the following passage and answer the questions given below.

For centuries, rivers have shaped the development of human civilizations. Their significance extends far beyond providing water for drinking and agriculture. Rivers have functioned as transportation corridors, sources of economic activity, and natural systems that sustain biodiversity. Consequently, many major cities emerged along riverbanks, benefiting from trade opportunities and fertile land.

In recent decades, however, increasing pressure from urbanization and industrialization has altered many river systems. Expanding cities often require large-scale extraction of water, while industrial activities may introduce pollutants into waterways. These changes can reduce water quality, disrupt aquatic ecosystems, and affect communities that depend upon rivers for their livelihoods. In some regions, excessive dam construction has further modified natural flow patterns, producing both benefits and unintended consequences.

Supporters of large infrastructure projects argue that dams contribute to energy production, flood control, and agricultural development. Critics acknowledge these advantages but contend that environmental and social costs are frequently underestimated. Altered sediment flows, displacement of local populations, and declining fish populations illustrate some of the concerns raised by environmental researchers.

As a result, contemporary river management increasingly emphasizes balance rather than maximization. Policymakers are exploring approaches that seek to accommodate economic growth while preserving ecological integrity. Such efforts recognize that rivers are not merely resources to be exploited but dynamic systems whose long-term health influences both environmental sustainability and human well-being. The challenge is not whether rivers should be used, but how competing demands can be managed responsibly over time.

SubQuestion No : 66

Q.66 The most appropriate connection to a real-life situation discussed in the passage would be:

- Ans**
- ☒ A. Designing policies that seek economic growth without causing irreversible ecological damage.
 - ☐ B. Investigating how geographical features influenced the rise of ancient civilizations.
 - ☐ C. Promoting urban expansion as the primary driver of regional prosperity.
 - ☐ D. Developing technologies that maximize energy production regardless of environmental impact.

Comprehension:

Read the following passage and answer the questions given below.

For centuries, rivers have shaped the development of human civilizations. Their significance extends far beyond providing water for drinking and agriculture. Rivers have functioned as transportation corridors, sources of economic activity, and natural systems that sustain biodiversity. Consequently, many major cities emerged along riverbanks, benefiting from trade opportunities and fertile land. In recent decades, however, increasing pressure from urbanization and industrialization has altered many river systems. Expanding cities often require large-scale extraction of water, while industrial activities may introduce pollutants into waterways. These changes can reduce water quality, disrupt aquatic ecosystems, and affect communities that depend upon rivers for their livelihoods. In some regions, excessive dam construction has further modified natural flow patterns, producing both benefits and unintended consequences. Supporters of large infrastructure projects argue that dams contribute to energy production, flood control, and agricultural development. Critics acknowledge these advantages but contend that environmental and social costs are frequently underestimated. Altered sediment flows, displacement of local populations, and declining fish populations illustrate some of the concerns raised by environmental researchers. As a result, contemporary river management increasingly emphasizes balance rather than maximization. Policymakers are exploring approaches that seek to accommodate economic growth while preserving ecological integrity. Such efforts recognize that rivers are not merely resources to be exploited but dynamic systems whose long-term health influences both environmental sustainability and human well-being. The challenge is not whether rivers should be used, but how competing demands can be managed responsibly over time.

SubQuestion No : 67

Q.67 Which inference is most strongly supported by the passage?

- Ans** ☒ **A. Economic benefits and environmental costs often coexist in river projects.**
☒ **B. River pollution originates exclusively from industrial activities.**
☒ **C. Environmental researchers generally oppose economic growth.**
☒ **D. Most governments have abandoned infrastructure development entirely.**

Comprehension:

Read the following passage and answer the questions given below.

For centuries, rivers have shaped the development of human civilizations. Their significance extends far beyond providing water for drinking and agriculture. Rivers have functioned as transportation corridors, sources of economic activity, and natural systems that sustain biodiversity. Consequently, many major cities emerged along riverbanks, benefiting from trade opportunities and fertile land. In recent decades, however, increasing pressure from urbanization and industrialization has altered many river systems. Expanding cities often require large-scale extraction of water, while industrial activities may introduce pollutants into waterways. These changes can reduce water quality, disrupt aquatic ecosystems, and affect communities that depend upon rivers for their livelihoods. In some regions, excessive dam construction has further modified natural flow patterns, producing both benefits and unintended consequences. Supporters of large infrastructure projects argue that dams contribute to energy production, flood control, and agricultural development. Critics acknowledge these advantages but contend that environmental and social costs are frequently underestimated. Altered sediment flows, displacement of local populations, and declining fish populations illustrate some of the concerns raised by environmental researchers. As a result, contemporary river management increasingly emphasizes balance rather than maximization. Policymakers are exploring approaches that seek to accommodate economic growth while preserving ecological integrity. Such efforts recognize that rivers are not merely resources to be exploited but dynamic systems whose long-term health influences both environmental sustainability and human well-being. The challenge is not whether rivers should be used, but how competing demands can be managed responsibly over time.

SubQuestion No : 68

Q.68 Which statement best expresses the main theme of the passage?

- Ans** ☒ **A. Sustainable river management requires balancing multiple competing interests.**
☒ **B. Renewable energy projects should replace traditional economic activities.**
☒ **C. Industrialization inevitably destroys all natural ecosystems permanently.**
☒ **D. River-based civilizations were more successful than modern societies.**

Comprehension:

Read the following passage and answer the questions given below.

For centuries, rivers have shaped the development of human civilizations. Their significance extends far beyond providing water for drinking and agriculture. Rivers have functioned as transportation corridors, sources of economic activity, and natural systems that sustain biodiversity. Consequently, many major cities emerged along riverbanks, benefiting from trade opportunities and fertile land. In recent decades, however, increasing pressure from urbanization and industrialization has altered many river systems. Expanding cities often require large-scale extraction of water, while industrial activities may introduce pollutants into waterways. These changes can reduce water quality, disrupt aquatic ecosystems, and affect communities that depend upon rivers for their livelihoods. In some regions, excessive dam construction has further modified natural flow patterns, producing both benefits and unintended consequences. Supporters of large infrastructure projects argue that dams contribute to energy production, flood control, and agricultural development. Critics acknowledge these advantages but contend that environmental and social costs are frequently underestimated. Altered sediment flows, displacement of local populations, and declining fish populations illustrate some of the concerns raised by environmental researchers. As a result, contemporary river management increasingly emphasizes balance rather than maximization. Policymakers are exploring approaches that seek to accommodate economic growth while preserving ecological integrity. Such efforts recognize that rivers are not merely resources to be exploited but dynamic systems whose long-term health influences both environmental sustainability and human well-being. The challenge is not whether rivers should be used, but how competing demands can be managed responsibly over time.

SubQuestion No : 69

Q.69 Which title best captures the central idea of the passage?

- Ans**
- ☐ A. Evaluating Rivers as Sources of Renewable Energy Production
 - ☐ B. Exploring Rivers through Advances in Geographic Research
 - ☒ C. Managing Rivers amid Competing Developmental Priorities
 - ☐ D. Understanding Rivers within Ancient Civilizational Networks

Comprehension:

Read the following passage and answer the questions given below.

For centuries, rivers have shaped the development of human civilizations. Their significance extends far beyond providing water for drinking and agriculture. Rivers have functioned as transportation corridors, sources of economic activity, and natural systems that sustain biodiversity. Consequently, many major cities emerged along riverbanks, benefiting from trade opportunities and fertile land. In recent decades, however, increasing pressure from urbanization and industrialization has altered many river systems. Expanding cities often require large-scale extraction of water, while industrial activities may introduce pollutants into waterways. These changes can reduce water quality, disrupt aquatic ecosystems, and affect communities that depend upon rivers for their livelihoods. In some regions, excessive dam construction has further modified natural flow patterns, producing both benefits and unintended consequences. Supporters of large infrastructure projects argue that dams contribute to energy production, flood control, and agricultural development. Critics acknowledge these advantages but contend that environmental and social costs are frequently underestimated. Altered sediment flows, displacement of local populations, and declining fish populations illustrate some of the concerns raised by environmental researchers. As a result, contemporary river management increasingly emphasizes balance rather than maximization. Policymakers are exploring approaches that seek to accommodate economic growth while preserving ecological integrity. Such efforts recognize that rivers are not merely resources to be exploited but dynamic systems whose long-term health influences both environmental sustainability and human well-being. The challenge is not whether rivers should be used, but how competing demands can be managed responsibly over time.

SubQuestion No : 70

Q.70 Which assumption underlies the author's concluding argument?

- Ans**
- ☐ A. Technological innovation inevitably resolves resource conflicts.
 - ☐ B. Environmental sustainability requires ending industrial growth completely.
 - ☒ C. Economic development and ecological protection can be pursued simultaneously.
 - ☐ D. Natural ecosystems recover quickly from all forms of disturbance.

Comprehension:

Read the passage and choose the correct answer to the questions based on it.

Handlooms have occupied an important place in human civilization for thousands of years. Before the widespread use of machines, communities depended on hand-operated looms to produce clothing, household fabrics, and ceremonial textiles. Different regions gradually developed distinctive weaving traditions based on locally available fibres, dyes, and cultural preferences. As trade expanded, handcrafted fabrics travelled across continents and became symbols of artistic excellence as well as economic prosperity.

The Industrial Revolution brought significant changes to textile production. Mechanized mills could manufacture cloth in far greater quantities and at lower costs than individual weavers. As inexpensive factory-made textiles entered markets, many traditional handloom communities struggled to compete. Reduced demand, declining incomes, and changing consumer preferences threatened the survival of several weaving traditions.

Despite these challenges, handlooms did not disappear. Governments, cooperatives, and cultural organizations introduced measures to preserve weaving skills and improve the livelihoods of artisans. Training programmes, exhibitions, and fair-trade initiatives encouraged greater public appreciation of handmade textiles. At the same time, designers began combining traditional weaving techniques with contemporary patterns, enabling handloom products to appeal to modern consumers.

Today, handlooms represent more than a method of producing fabric. They preserve cultural identity, reflect regional craftsmanship, and support sustainable production by relying on comparatively low energy consumption. Although machine-made textiles continue to dominate global markets, growing awareness of environmental concerns and appreciation for handmade products have renewed interest in traditional weaving. The history of handlooms therefore illustrates not only technological change but also the continuing effort to balance economic development with cultural preservation.

SubQuestion No : 71

Q.71 Which of the following best expresses the central idea of the passage?

- Ans** ✓ **A. The evolution of handlooms through technological change and preservation efforts.**
 ✗ **B. The replacement of regional craftsmanship by factory-made household fabrics.**
 ✗ **C. The expansion of global trade through mechanized textile production alone.**
 ✗ **D. The dependence of ceremonial textiles on locally available fibres and dyes.**

Comprehension:

Read the passage and choose the correct answer to the questions based on it.

Handlooms have occupied an important place in human civilization for thousands of years. Before the widespread use of machines, communities depended on hand-operated looms to produce clothing, household fabrics, and ceremonial textiles. Different regions gradually developed distinctive weaving traditions based on locally available fibres, dyes, and cultural preferences. As trade expanded, handcrafted fabrics travelled across continents and became symbols of artistic excellence as well as economic prosperity.

The Industrial Revolution brought significant changes to textile production. Mechanized mills could manufacture cloth in far greater quantities and at lower costs than individual weavers. As inexpensive factory-made textiles entered markets, many traditional handloom communities struggled to compete. Reduced demand, declining incomes, and changing consumer preferences threatened the survival of several weaving traditions.

Despite these challenges, handlooms did not disappear. Governments, cooperatives, and cultural organizations introduced measures to preserve weaving skills and improve the livelihoods of artisans. Training programmes, exhibitions, and fair-trade initiatives encouraged greater public appreciation of handmade textiles. At the same time, designers began combining traditional weaving techniques with contemporary patterns, enabling handloom products to appeal to modern consumers.

Today, handlooms represent more than a method of producing fabric. They preserve cultural identity, reflect regional craftsmanship, and support sustainable production by relying on comparatively low energy consumption. Although machine-made textiles continue to dominate global markets, growing awareness of environmental concerns and appreciation for handmade products have renewed interest in traditional weaving. The history of handlooms therefore illustrates not only technological change but also the continuing effort to balance economic development with cultural preservation.

SubQuestion No : 72

Q.72 A community begins promoting handmade textiles by organizing exhibitions and teaching traditional weaving techniques to younger artisans. Which part of the passage does this situation best reflect?

- Ans** ✓ **A. Measures introduced to preserve weaving skills and improve livelihoods.**
 ✗ **B. Dependence on locally available fibers and cultural preferences.**
 ✗ **C. Markets dominated by inexpensive factory-made textile production..**
 ✗ **D. Expansion of trade through handcrafted fabrics across continents.**

Comprehension:

Read the passage and choose the correct answer to the questions based on it.

Handlooms have occupied an important place in human civilization for thousands of years. Before the widespread use of machines, communities depended on hand-operated looms to produce clothing, household fabrics, and ceremonial textiles. Different regions gradually developed distinctive weaving traditions based on locally available fibres, dyes, and cultural preferences. As trade expanded, handcrafted fabrics travelled across continents and became symbols of artistic excellence as well as economic prosperity.

The Industrial Revolution brought significant changes to textile production. Mechanized mills could manufacture cloth in far greater quantities and at lower costs than individual weavers. As inexpensive factory-made textiles entered markets, many traditional handloom communities struggled to compete. Reduced demand, declining incomes, and changing consumer preferences threatened the survival of several weaving traditions.

Despite these challenges, handlooms did not disappear. Governments, cooperatives, and cultural organizations introduced measures to preserve weaving skills and improve the livelihoods of artisans. Training programmes, exhibitions, and fair-trade initiatives encouraged greater public appreciation of handmade textiles. At the same time, designers began combining traditional weaving techniques with contemporary patterns, enabling handloom products to appeal to modern consumers.

Today, handlooms represent more than a method of producing fabric. They preserve cultural identity, reflect regional craftsmanship, and support sustainable production by relying on comparatively low energy consumption. Although machine-made textiles continue to dominate global markets, growing awareness of environmental concerns and appreciation for handmade products have renewed interest in traditional weaving. The history of handlooms therefore illustrates not only technological change but also the continuing effort to balance economic development with cultural preservation.

SubQuestion No : 73

Q.73 Which best describes the overall style of the passage?

- Ans**
- ☐ A. Descriptive, because it mainly portrays the appearance of woven fabrics.
 - ☐ B. Narrative, because it recounts the experiences of a traditional village weaver.
 - ☐ C. Persuasive, because it urges readers to reject mechanized textile production.
 - ☒ D. Expository, because it explains the development and significance of handlooms objectively.

Comprehension:

Read the passage and choose the correct answer to the questions based on it.

Handlooms have occupied an important place in human civilization for thousands of years. Before the widespread use of machines, communities depended on hand-operated looms to produce clothing, household fabrics, and ceremonial textiles. Different regions gradually developed distinctive weaving traditions based on locally available fibres, dyes, and cultural preferences. As trade expanded, handcrafted fabrics travelled across continents and became symbols of artistic excellence as well as economic prosperity.

The Industrial Revolution brought significant changes to textile production. Mechanized mills could manufacture cloth in far greater quantities and at lower costs than individual weavers. As inexpensive factory-made textiles entered markets, many traditional handloom communities struggled to compete. Reduced demand, declining incomes, and changing consumer preferences threatened the survival of several weaving traditions.

Despite these challenges, handlooms did not disappear. Governments, cooperatives, and cultural organizations introduced measures to preserve weaving skills and improve the livelihoods of artisans. Training programmes, exhibitions, and fair-trade initiatives encouraged greater public appreciation of handmade textiles. At the same time, designers began combining traditional weaving techniques with contemporary patterns, enabling handloom products to appeal to modern consumers.

Today, handlooms represent more than a method of producing fabric. They preserve cultural identity, reflect regional craftsmanship, and support sustainable production by relying on comparatively low energy consumption. Although machine-made textiles continue to dominate global markets, growing awareness of environmental concerns and appreciation for handmade products have renewed interest in traditional weaving. The history of handlooms therefore illustrates not only technological change but also the continuing effort to balance economic development with cultural preservation.

SubQuestion No : 74

Q.74 According to the passage, which factor helped revive interest in handloom products?

- Ans**
- ☐ A. Consumers replacing handmade fabrics with inexpensive machine-made cloth.
 - ☐ B. Communities abandoning regional craftsmanship for factory production.
 - ☐ C. Mechanized mills producing ceremonial textiles at lower costs.
 - ☒ D. Designers combining traditional weaving with contemporary patterns.

Comprehension:

Read the passage and choose the correct answer to the questions based on it.

Handlooms have occupied an important place in human civilization for thousands of years. Before the widespread use of machines, communities depended on hand-operated looms to produce clothing, household fabrics, and ceremonial textiles. Different regions gradually developed distinctive weaving traditions based on locally available fibres, dyes, and cultural preferences. As trade expanded, handcrafted fabrics travelled across continents and became symbols of artistic excellence as well as economic prosperity.

The Industrial Revolution brought significant changes to textile production. Mechanized mills could manufacture cloth in far greater quantities and at lower costs than individual weavers. As inexpensive factory-made textiles entered markets, many traditional handloom communities struggled to compete. Reduced demand, declining incomes, and changing consumer preferences threatened the survival of several weaving traditions.

Despite these challenges, handlooms did not disappear. Governments, cooperatives, and cultural organizations introduced measures to preserve weaving skills and improve the livelihoods of artisans. Training programmes, exhibitions, and fair-trade initiatives encouraged greater public appreciation of handmade textiles. At the same time, designers began combining traditional weaving techniques with contemporary patterns, enabling handloom products to appeal to modern consumers.

Today, handlooms represent more than a method of producing fabric. They preserve cultural identity, reflect regional craftsmanship, and support sustainable production by relying on comparatively low energy consumption. Although machine-made textiles continue to dominate global markets, growing awareness of environmental concerns and appreciation for handmade products have renewed interest in traditional weaving. The history of handlooms therefore illustrates not only technological change but also the continuing effort to balance economic development with cultural preservation.

SubQuestion No : 75

Q.75 Which sequence follows the order presented in the passage?

- Ans** ☒ A. Traditional weaving → Mechanized production → Preservation efforts → Renewed interest
☐ B. Mechanized production → Renewed interest → Traditional weaving → Preservation efforts
☐ C. Renewed interest → Mechanized production → Traditional weaving → Preservation efforts
☐ D. Preservation efforts → Traditional weaving → Renewed interest → Mechanized production

Comprehension:

Read the passage carefully and answer the questions given below.

History is often perceived as a chronological record of past events, yet contemporary historians increasingly argue that it is also a process of interpretation. Historical narratives are constructed from evidence such as official records, archaeological findings, personal diaries, oral traditions, and material artefacts. Since these sources vary in reliability, completeness, and perspective, historians must evaluate them critically before drawing conclusions. Moreover, every generation approaches the past with different questions shaped by its own social, political, and intellectual concerns. Consequently, historical interpretations are subject to revision whenever new evidence emerges or previously neglected voices receive scholarly attention. Such revisions should not be mistaken for distortions of history; rather, they reflect the discipline's commitment to refining knowledge through critical inquiry. Recent scholarship has expanded historical research beyond the actions of kings, military leaders, and political elites to include the experiences of women, workers, indigenous communities, and other marginalized groups. This broader perspective has enriched historical understanding by demonstrating that social change often results from the collective actions of ordinary individuals rather than the decisions of a few influential figures. Nevertheless, historians remain constrained by the availability and quality of evidence, making complete objectivity unattainable. Instead, the credibility of historical writing depends upon rigorous methodology, transparent use of sources, and reasoned interpretation. Thus, history should be viewed not as an unchanging repository of facts but as a dynamic and continuously evolving dialogue between evidence, interpretation, and society.

SubQuestion No : 76

Q.76 The tone of the passage is best described as:

- Ans** ☐ A. Humorous and Satirical
☐ B. Emotional and Nostalgic
☐ C. Critical and Mocking
☒ D. Reflective and Analytical

Comprehension:

Read the passage carefully and answer the questions given below.

History is often perceived as a chronological record of past events, yet contemporary historians increasingly argue that it is also a process of interpretation. Historical narratives are constructed from evidence such as official records, archaeological findings, personal diaries, oral traditions, and material artefacts. Since these sources vary in reliability, completeness, and perspective, historians must evaluate them critically before drawing conclusions. Moreover, every generation approaches the past with different questions shaped by its own social, political, and intellectual concerns. Consequently, historical interpretations are subject to revision whenever new evidence emerges or previously neglected voices receive scholarly attention. Such revisions should not be mistaken for distortions of history; rather, they reflect the discipline's commitment to refining knowledge through critical inquiry. Recent scholarship has expanded historical research beyond the actions of kings, military leaders, and political elites to include the experiences of women, workers, indigenous communities, and other marginalized groups. This broader perspective has enriched historical understanding by demonstrating that social change often results from the collective actions of ordinary individuals rather than the decisions of a few influential figures. Nevertheless, historians remain constrained by the availability and quality of evidence, making complete objectivity unattainable. Instead, the credibility of historical writing depends upon rigorous methodology, transparent use of sources, and reasoned interpretation. Thus, history should be viewed not as an unchanging repository of facts but as a dynamic and continuously evolving dialogue between evidence, interpretation, and society.

SubQuestion No : 77

Q.77 Which of the following is the most appropriate title for the passage?

- Ans**
- ☒ A. Historical Sources and Their Preservation
 - ☒ B. History as an Evolving Interpretation of the Past
 - ☐ C. The Importance of Political Leaders in History
 - ☐ D. Archaeology and Historical Discoveries

Comprehension:

Read the passage carefully and answer the questions given below.

History is often perceived as a chronological record of past events, yet contemporary historians increasingly argue that it is also a process of interpretation. Historical narratives are constructed from evidence such as official records, archaeological findings, personal diaries, oral traditions, and material artefacts. Since these sources vary in reliability, completeness, and perspective, historians must evaluate them critically before drawing conclusions. Moreover, every generation approaches the past with different questions shaped by its own social, political, and intellectual concerns. Consequently, historical interpretations are subject to revision whenever new evidence emerges or previously neglected voices receive scholarly attention. Such revisions should not be mistaken for distortions of history; rather, they reflect the discipline's commitment to refining knowledge through critical inquiry. Recent scholarship has expanded historical research beyond the actions of kings, military leaders, and political elites to include the experiences of women, workers, indigenous communities, and other marginalized groups. This broader perspective has enriched historical understanding by demonstrating that social change often results from the collective actions of ordinary individuals rather than the decisions of a few influential figures. Nevertheless, historians remain constrained by the availability and quality of evidence, making complete objectivity unattainable. Instead, the credibility of historical writing depends upon rigorous methodology, transparent use of sources, and reasoned interpretation. Thus, history should be viewed not as an unchanging repository of facts but as a dynamic and continuously evolving dialogue between evidence, interpretation, and society.

SubQuestion No : 78

Q.78 What is the central theme of the passage?

- Ans**
- ☒ A. Historical understanding evolves through the critical interpretation of evidence.
 - ☐ B. Political history is more important than social history.
 - ☐ C. Historical facts should never be questioned.
 - ☐ D. Archaeology is the only reliable source of history.

Comprehension:

Read the passage carefully and answer the questions given below.

History is often perceived as a chronological record of past events, yet contemporary historians increasingly argue that it is also a process of interpretation. Historical narratives are constructed from evidence such as official records, archaeological findings, personal diaries, oral traditions, and material artefacts. Since these sources vary in reliability, completeness, and perspective, historians must evaluate them critically before drawing conclusions. Moreover, every generation approaches the past with different questions shaped by its own social, political, and intellectual concerns. Consequently, historical interpretations are subject to revision whenever new evidence emerges or previously neglected voices receive scholarly attention. Such revisions should not be mistaken for distortions of history; rather, they reflect the discipline's commitment to refining knowledge through critical inquiry. Recent scholarship has expanded historical research beyond the actions of kings, military leaders, and political elites to include the experiences of women, workers, indigenous communities, and other marginalized groups. This broader perspective has enriched historical understanding by demonstrating that social change often results from the collective actions of ordinary individuals rather than the decisions of a few influential figures. Nevertheless, historians remain constrained by the availability and quality of evidence, making complete objectivity unattainable. Instead, the credibility of historical writing depends upon rigorous methodology, transparent use of sources, and reasoned interpretation. Thus, history should be viewed not as an unchanging repository of facts but as a dynamic and continuously evolving dialogue between evidence, interpretation, and society.

SubQuestion No : 79

Q.79 Which of the following can be inferred from the passage?

- Ans**
- ☐ A. Historical research has become less rigorous over time.
 - ☐ B. Oral traditions are always unreliable.
 - ☐ C. Historians intentionally alter historical facts.
 - ☒ D. Absolute objectivity in historical writing is difficult to achieve.

Comprehension:

Read the passage carefully and answer the questions given below.

History is often perceived as a chronological record of past events, yet contemporary historians increasingly argue that it is also a process of interpretation. Historical narratives are constructed from evidence such as official records, archaeological findings, personal diaries, oral traditions, and material artefacts. Since these sources vary in reliability, completeness, and perspective, historians must evaluate them critically before drawing conclusions. Moreover, every generation approaches the past with different questions shaped by its own social, political, and intellectual concerns. Consequently, historical interpretations are subject to revision whenever new evidence emerges or previously neglected voices receive scholarly attention. Such revisions should not be mistaken for distortions of history; rather, they reflect the discipline's commitment to refining knowledge through critical inquiry. Recent scholarship has expanded historical research beyond the actions of kings, military leaders, and political elites to include the experiences of women, workers, indigenous communities, and other marginalized groups. This broader perspective has enriched historical understanding by demonstrating that social change often results from the collective actions of ordinary individuals rather than the decisions of a few influential figures. Nevertheless, historians remain constrained by the availability and quality of evidence, making complete objectivity unattainable. Instead, the credibility of historical writing depends upon rigorous methodology, transparent use of sources, and reasoned interpretation. Thus, history should be viewed not as an unchanging repository of facts but as a dynamic and continuously evolving dialogue between evidence, interpretation, and society.

SubQuestion No : 80

Q.80 According to the passage, recent historical scholarship has expanded its focus to include:

- Ans**
- ☐ A. Only the achievements of national leaders.
 - ☐ B. Primarily archaeological discoveries.
 - ☐ C. Only military campaigns and political revolutions.
 - ☒ D. The experiences of marginalized and ordinary people.

Q.81 A, B, C, D, E and F live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it is numbered 2 and so on till the topmost floor is numbered 6. Only two people live between F and A. Only two people live between E and D. Only one person lives between B and D. B lives on floor number 1. F lives on one of the floors above D. How many people live between C and E?

- Ans**
- ☐ A. Four
 - ☐ B. Three
 - ☒ C. One
 - ☐ D. Two

Q.82 Based on the English alphabetical order, three of the following four are alike in a certain way and thus form a group. Which is the one that does not belong to that group? (Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster.)

- Ans**
- ☒ A. PRU
 - ☐ B. CFH
 - ☐ C. JMO
 - ☐ D. NQS

Q.83 SKHJ is related to VNKM in a certain way based on the English alphabetical order. In the same way, HUPD is related to KXSG. To which of the following is AJDS related, following the same logic?

- Ans**
- ☒ A. DMGV
 - ☐ B. DNHV
 - ☐ C. DMHV
 - ☐ D. DNGV

Q.84 Eight people are sitting in two parallel rows containing 4 people each in such a way that there is equal distance between adjacent persons.

In row 1 – D, E, T and U are seated and all of them are facing south

In row 2 – F, G, V and W are seated and all of them are facing north.

Thus each person faces another person from the other row.

F faces the one sitting to the immediate right of U. Only one person sits between F and

W. Only two people sit between V and W. W faces the one sitting second to the left of D.

T sits at some place to the right of E. Which of the following represents both people facing each other?

- Ans**
- ☐ A. D and V
 - ☒ B. U and G
 - ☐ C. E and V
 - ☐ D. T and W

Q.85 If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 47521836, what will be the sum of the digits which are third from the left and second from the right?

- Ans**
- ☐ A. 9
 - ☐ B. 8
 - ☐ C. 7
 - ☒ D. 10

Q.86 If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 7583614, which of the following digits will be second from the left in the new number thus formed?

- Ans**
- ☒ A. 6
 - ☐ B. 7
 - ☐ C. 5
 - ☐ D. 8

Q.87 What should come in place of the question mark (?) in the given series?

5050, 5275, 5079, 5248, 5104, 5225, ?

- Ans**
- ☐ A. 5132
 - ☒ B. 5125
 - ☐ C. 5144
 - ☐ D. 5110

Q.88 Seven friends A, B, C, D, E, F and G are scheduled for vaccination on different days of a week from Monday to Sunday.
D is scheduled on Monday. E is scheduled two days after D. C is scheduled before F but after B. G is not scheduled on Sunday.
Only one person is scheduled between F and E.
On which day is C scheduled?

- Ans**
- ☒ A. Monday
 - ☒ B. Tuesday
 - ☒ C. Thursday
 - ☒ D. Wednesday

Q.89 In the following series, only one letter cluster is wrong. Find out the wrong letter cluster.
RXD MSY HNT CIP XDJ SYE

- Ans**
- ☒ A. XDJ
 - ☒ B. HNT
 - ☒ C. MSY
 - ☒ D. CIP

Q.90 If 'A' stands for ' $\div$ ', 'B' stands for ' $\times$ ', 'C' stands for '+' and 'D' stands for '-', what will come in place of question mark '?' in the following equation?
 $11 \ C \ 64 \ A \ 8 \ D \ 6 \ B \ 2 = ?$

- Ans**
- ☒ A. 3
 - ☒ B. 15
 - ☒ C. 7
 - ☒ D. 11

Q.91 Six friends, O, P, Q, G, H and I, 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 O lives above P. Only one person lives between O and G. Only Q lives below I.
How many people live above H?

- Ans**
- ☒ A. Three
 - ☒ B. Two
 - ☒ C. None
 - ☒ D. One

Q.92 XZYW is related to TVUS in a certain way based on the English alphabetical order. In the same way, QSRP is related to MONL. To which of the following is ACBZ related, following the same logic?

- Ans**
- ☒ A. WUTS
 - ☒ B. WVTU
 - ☒ C. WYXV
 - ☒ D. WSTS

Q.93 Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?

LPM 5, NRO 10, PTQ 15, RVS 20, ?

- Ans**
- ☒ A. SWT 23
 - ☒ B. UYV 25
 - ☒ C. TXU 28
 - ☒ D. TXU 25

Q.94 What will come in place of the '?' in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$$76 \div 4 + 27 \times 3 - 10 = ?$$

- Ans**
- ☒ A. 310
 - ☒ B. 320
 - ☒ C. 315
 - ☒ D. 305

Q.95 6 is related to 72 following a certain logic. Following the same logic, 8 is related to 128. To which of the given options is 5 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 etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- Ans**
- ☒ A. 50
 - ☒ B. 125
 - ☒ C. 75
 - ☒ D. 60

Q.96 Based on the English alphabetical order, three of the following four are alike in a certain way and thus form a group. Which is the one that does not belong to that group?

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

- Ans**
- ☒ A. FLG
 - ☒ B. DJE
 - ☒ C. HNI
 - ☒ D. BHD

Q.97 Based on the English alphabetical order, three of the following four are alike in a certain way and thus form a group. Which is the one that does not belong to that group? (Note: The odd man out is not based on the number of consonants/vowels or their position in the letter-cluster.)

- Ans**
- ☒ A. ROQ
 - ☒ B. OKN
 - ☒ C. YUX
 - ☒ D. KGJ

Q.98 PYRV is related to AJCG in a certain way based on the English alphabetical order. In the same way, HQJN is related to SBUY. To which of the following options is OXQU related, following the same logic?

- Ans**
- ☒ A. ZBFR
 - ☒ B. ZBHU
 - ☒ C. ZBDE
 - ☒ D. ZIBF

Q.99 Eight people are sitting in two parallel rows containing 4 people each in such a way that there is equal distance between adjacent persons.

In row 1 – A, B, C and D are seated and all of them are facing south.

In row 2 – W, X, Y and Z are seated and all of them are facing north.

Thus, each person faces another person from the other row.

X sits third to the left of Z. The one facing C is an immediate neighbour of Z. A sits at some place to the right of C and is not facing W. B sits third to the right of D.

Who faces C?

- Ans**
- ☒ A. X
 - ☒ B. W
 - ☒ C. Y
 - ☒ D. Z

Q.100 In a certain code language, 'COLD' is coded as '7218' and 'LORD' is coded as '2478'. What is the code for 'R' in the given code language?

- Ans**
- ☐ A. 2
 - ☐ B. 8
 - ☐ C. 7
 - ☒ D. 4