# रेलवे भर्ती बोर्ड / RAILWAY RECRUITMENT BOARD

## सी ई एन - ०३/२०२६ - CEN - 03/2026

## सेक्शन कंट्रोलर की भर्ती / Recruitment of Section Controller

सत्यमेव जयते

| | |
|---|---|
| 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.**

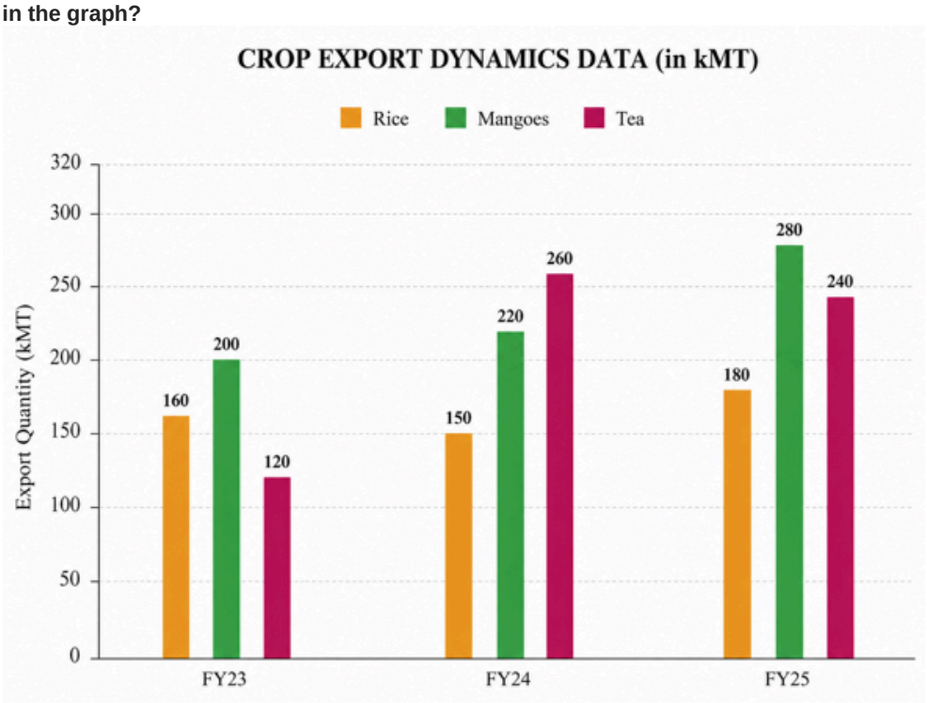
**1. Options shown in green color with a tick icon are correct.**
**2. Chosen option on the right of the question indicates the option selected by the candidate.**

Section : **RRB SECTION CONTROLLER CBT 1**

**Q.1** **Three coins are tossed. What is the probability that at least one coin shows tails?**

**Ans**
A. 0.625
B. 0.75
C. 0.875
D. 0.5

**Q.2** **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. Mangoes were the only crop to show a consistent increase in export volume across all three fiscal years.
B. 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.
C. The total export volume of all three crops combined increased by exactly 100 kMT from FY24 to FY25.
D. Rice exports experienced a higher percentage growth from FY23 to FY24 than from FY24 to FY25.

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

**Ans**

A. 23 : 11

B. 23 : 12

C. 33 : 12

D. 13 : 12

**Q.4** If $x = 2^5 . 3^3 . 5^2$ and $y = 2^3 . 3^5 . 5^1$

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

**Ans**

A. 3

B. 2

C. 6

D. 5

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

**Ans**

A. 15

B. 12

C. 13

D. 14

**Q.6** **If 10% of x = 264, then x is equal to:**

**Ans**

A. 5380

B. 5280

C. 2640

D. 2740

**Q.7** **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. 12 hours 20 minutes

B. 15 hours 45 minutes

C. 16 hours 15 minutes

D. 21 hours 32 minutes

**Q.8** **The smallest number that should be multiplied by 75 to make it a perfect square is:**

**Ans**

A. 3

B. 5

C. 2

D. 15

**Q.9** **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.10** **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. 188

B. 179

C. 184

D. 174

**Q.11** **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. ₹11,250

B. ₹10,500

C. ₹12,750

D. ₹13,500

**Q.12** **A dress has a marked price of ₹750. After a discount, the price paid is ₹675. What was the percentage discount given?**

**Ans**

A. 10%

B. 15%

C. 8%

D. 12%

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

**Ans**

A. 8

B. 10

C. 9

D. 11

**Q.14** **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. 10

D. 9

**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. 72%

C. 73%

D. 70%

**Q.16** **The LCM of the numbers 9, 45 and 75 is:**

**Ans**

A. 450

B. 225

C. 325

D. 125

**Q.17** **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. $-4816$

D. $-4608$

**Q.18** **An equilateral triangle has a side length of $14\sqrt{3}$ 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**

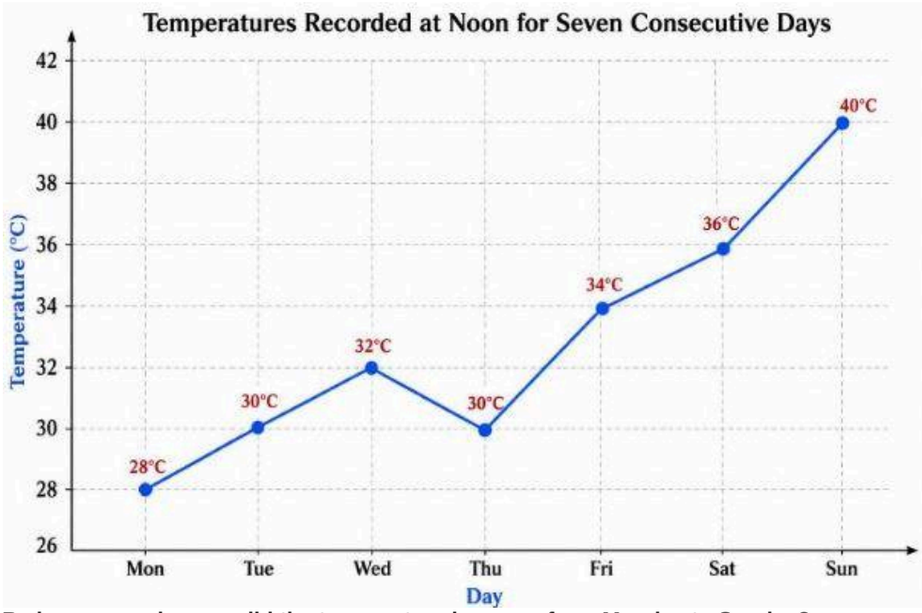
A. 427 $cm^2$

B. 492 $cm^2$

C. 462 $cm^2$

D. 483 $cm^2$

**Q.19** **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. 10°C

C. 12°C

D. 11°C

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**Q.20** **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. 2,999

B. 2,998

C. 3,000

D. 3,002

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**Q.21** **If the sum of natural numbers from 1 to m is 990, which value does m represent?**

**Ans**

A. 45

B. 50

C. 40

D. 44

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**Q.22** **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. 6 hours

B. 7.5 hours

C. 6.5 hours

D. 7 hours

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**Q.23** **Find the sum of all natural numbers that are less than 20 and coprime to 2.**

**Ans**

A. 100

B. 120

C. 110

D. 92

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**Q.24** **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. 48 cm

B. 52 cm

C. 44 cm

D. 50 cm

**Q.25** **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. 7.6

B. 9.6

C. 8.5

D. 6.6

**Q.26** **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 π= 22/7)**

**Ans**

A. $54\ \text{cm}$

B. $\frac{784}{11}\ \text{cm}$

C. $\frac{24}{7}\ \text{cm}$

D. $68\ \text{cm}$

**Q.27** **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. 160 $m^3$

C. 128 $m^3$

D. 192 $m^3$

**Q.28** **If the average of 5 numbers is 20 and each number is increased by 2, what will be the new average?**

**Ans**

A. 18

B. 24

C. 22

D. 20

**Q.29** **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. 8 hours

B. 4 hours

C. 6 hours

D. 5 hours

**Q.30** **The marks obtained by five students are 48, 52, 56, 60 and 64. Find the arithmetic mean using the assumed mean method.**

**Ans**

A. 53

B. 54

C. 56

D. 55

**Q.31** **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. $\frac{66}{6615}$

B. $\frac{68}{6615}$

C. $\frac{73}{6615}$

D. $\frac{1427}{6615}$

**Q.32** **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. 8 cm

B. 6 cm

C. 12 cm

D. 16 cm

**Q.33** **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. 75

C. 80

D. 65

**Q.34** **A digital lock system only accepts codes divisible by both 6 and 9. Which of these codes would be accepted?**

**Ans**

A. 138

B. 152

C. 162

D. 135

**Q.35** **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. 33

C. 36

D. 30

**Q.36** **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. $\frac{1}{8}$

B. $\frac{1}{7}$

C. $\frac{1}{5}$

D. $\frac{2}{5}$

**Q.37** **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.38** **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. 5

B. 7

C. 9

D. 8

**Q.39** **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. 36

C. 18

D. 12

**Q.40** **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. ₹2,700

B. ₹1,800

C. ₹1,200

D. ₹900

**Q.41** **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 2%

B. Profit of 5%

C. Profit of 6%

D. Loss of 4%

**Q.42** **A hemispherical shell has an external radius R and an internal radius r. If the total surface area of the shell is 448π cm² and R − r = 8 cm, what is the value of R + r?**

**Ans**

A. 12 cm

B. 14 cm

C. 20 cm

D. 16 cm

**Q.43** **There is a point E between two parallel lines AB and CD, such that ∠ABE = 135° and ∠CDE = 120°. What is the measure of the reflex angle ∠BED?**

**Ans**

A. 275°

B. 250°

C. 255°

D. 245°

**Q.44** **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. 16.5

C. 17.5

D. 17

**Q.45** **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. 0%

B. 10%

C. 4.55%

D. 5.25%

**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. 82

B. 83

C. 84

D. 81

**Q.47** **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. C
B. D
C. B
D. A

**Q.48** **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.49** **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. −4
B. 7
C. 6
D. 5

**Q.50** **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. 128
B. 127
C. 126
D. 125

**Q.51** **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. 30 liters
B. 36 liters
C. 45 liters
D. 50 liters

**Q.52** **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. 40.5 degrees
B. 35.5 degrees
C. 33 degrees
D. 31 degrees

**Q.53** **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. 20
C. 12
D. 16

**Q.54** **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. 26:27

B. 22:25

C. 27:29

D. 12:7

**Q.55** **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. ₹15,840

B. ₹17,600

C. ₹16,200

D. ₹16,020

**Q.56** **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**

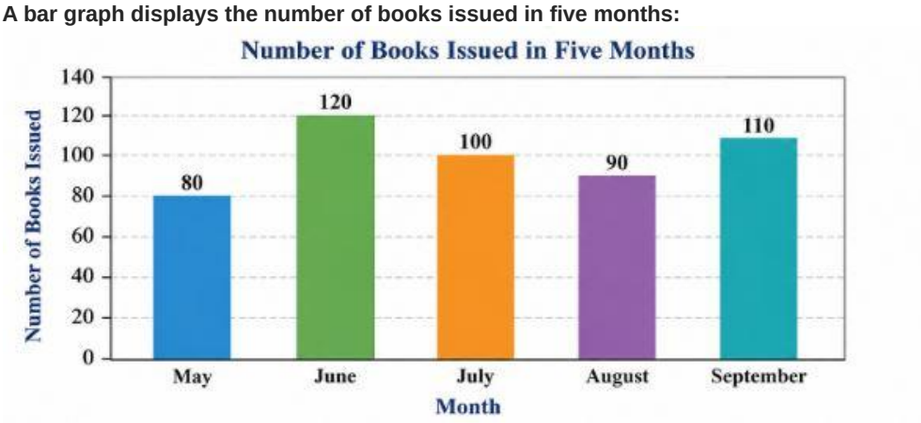
A. 70 m

B. 50 m

C. 80 m

D. 60 m

**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. August

D. September

**Q.58** **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**

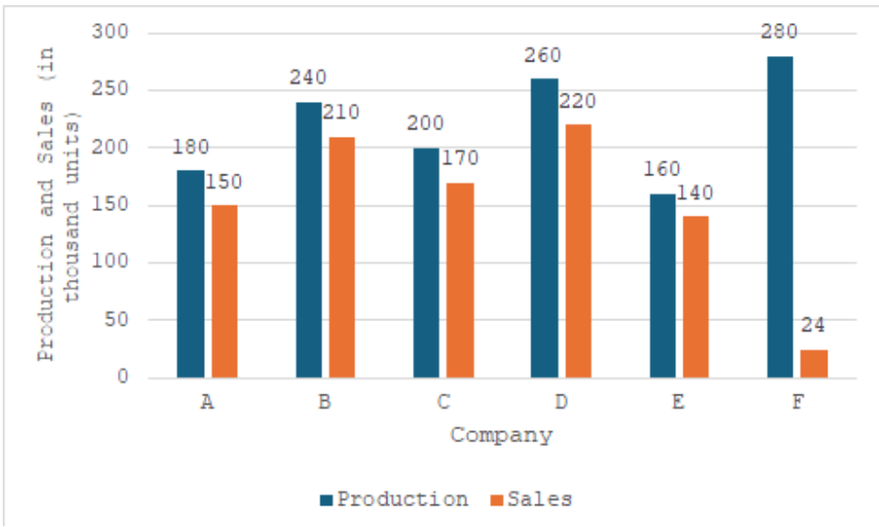
A. ₹20

B. ₹25

C. ₹30

D. ₹10

**Q.59** **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**

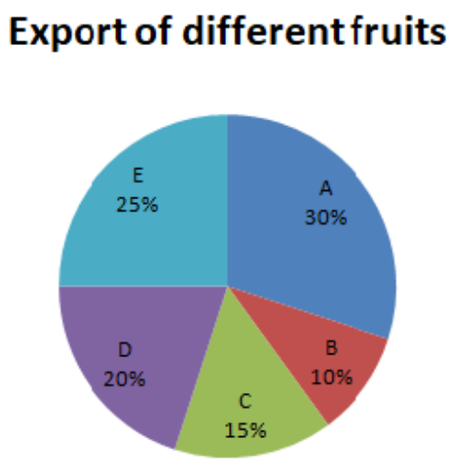
A. Company D's net gain exceeded that of Company B by more than ₹3 lakh.

B. Company B earned a lower net gain than Company F.

C. Company F earned the highest net gain.

D. The combined net gain of Companies A and E was less than that of Company D.

**Q.60** **The pie chart below shows the export of different fruits from India in a particular year.**




**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. 375

B. 450

C. 225

D. 150

**Q.61** **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. Zero

C. Three

D. Two

**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. 8

B. 5

C. 7

D. 6

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

**Ans**

A. Wednesday

B. Saturday

C. Sunday

D. Monday

**Q.64** **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. None

B. More than two

C. Two

D. One

**Q.65** **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. Father's sister

C. Father

D. Sister's husband

**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 . 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, 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 and students in achieving better outcomes.

**SubQuestion No : 66**

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

**Ans**

A. Educational Policies Managing Institutional Training Requirements

B. Artificial Intelligence Supporting Balanced Educational Development

C. Digital Resources Transforming Contemporary Learning Methods

D. Classroom Technologies Replacing Traditional Teaching Practices

**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 . 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, 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 and students in achieving better outcomes.

**SubQuestion No : 67**

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

**Ans**

A. Educational technology requires careful use alongside human guidance.

B. Modern institutions should avoid technological developments completely.

C. Automated systems have removed the need for classroom interaction.

D. Digital learning depends entirely on artificial intelligence tools.

**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 . 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, 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 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. Automated platforms guarantee equal access for all students.

C. require no training for using educational technologies.

D. Artificial intelligence can replace human qualities in education.

**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 . 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, 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 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. Historical overview followed by technological developments and outcomes

C. Comparative discussion followed by rejection of alternative viewpoints

D. Concept introduction followed by benefits, concerns, and implications

**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 . 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, 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 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 college allows automated systems to determine every academic decision without involving educators in instructional planning.

B. A university introduces adaptive learning software while encouraging instructors to supervise learning and address students' individual needs.

C. A training institute postpones digital innovation because technological change is considered unsuitable for formal education.

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. Tourism Activities Expanding Local Economic Opportunities

B. Cultural Landscapes Reflecting Historical Continuity

C. Urban Development Transforming Traditional Communities

D. Religious Practices Influencing Regional Social Systems

**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 city administration restores historic buildings while supporting local artisans and promoting tourism that respects cultural traditions.

B. A heritage committee restricts public access to cultural sites because community participation is considered harmful to conservation efforts.

C. A tourism board promotes entertainment facilities as the primary means of preserving the historical identity of an ancient city.

D. A municipal authority replaces traditional neighbourhoods with commercial complexes to maximise economic activity and modern infrastructure.

**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. Ancient structures remain unaffected by modern pressures.

B. Local markets display handmade products created by artisans.

C. Cultural spaces exist separately from community activities.

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. A persuasive argument through claims, evidence, and recommendations

B. A narrative account through events, experiences, and sequences

C. An expository explanation through facts, analysis, and information

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. Marine Ecosystems Influencing Environmental Studies

B. A Researcher’s Journey Towards Scientific Discovery

C. Scientific Challenges Shaping Modern Research Methods

D. Institutional Support Developing Scientific Knowledge

**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 laboratory discontinues an investigation because unexpected results indicate that further experiments are unlikely to produce meaningful outcomes.

B. A scientific organisation assigns researchers to independent projects so that external collaboration does not influence experimental conclusions.

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 discovered solutions without field investigations.

B. Dr. Rao worked without assistance from other researchers.

C. Dr. Rao abandoned research after experimental failures.

D. Dr. Rao studied patterns in marine species behaviour.

**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. Concept explanation followed by analysis and recommendations

B. Problem discussion followed by causes and possible solutions

C. Comparative study followed by differences and conclusions

D. Event sequence followed by experiences and final achievements

**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. A persuasive argument through claims, evidence, and recommendations

B. An expository explanation through facts, analysis, and information

C. A narrative account through experiences, actions, and sequences

D. A descriptive portrayal through details, observations, and impressions

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

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

**Q.82** **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. T
C. E
D. R

**Q.83** **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. 8
D. 7

**Q.84** **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. MRU
B. EJM
C. GLO
D. FKT

**Q.85** **What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?**
**32 ÷ 30 - 16 + 18 x 18 = ?**

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

**Q.86** **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. PRHJUW
B. PQHISX
C. QRHITX
D. QSGJSY

**Q.87** **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. JKI -33
B. HGT -21
C. YOA -12
D. JKU -23

**Q.88** **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. LAVY

B. ALCV

C. ALWV

D. WAVB

**Q.89** **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. T

B. O

C. N

D. Q

**Q.90** **In the following series, only one letter cluster is wrong. Find out the wrong letter cluster.**
**FDA IGD LJG OMJ RPN USP**

**Ans**

A. LJG

B. IGD

C. RPN

D. OMJ

**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. QUX

B. BFI

C. DGK

D. HLO

**Q.92** **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. S

B. P

C. A

D. O

**Q.93** **If 'A' stands for '÷' , 'B' stands for '×', '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. 35

B. 37

C. 36

D. 38

**Q.94** **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. CYRD

B. CYUI

C. XDRE

D. CRDE

**Q.95** **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. IKE
B. RTO
C. LNI
D. OQL

**Q.96** **All 33 people are standing in a row facing North. Firoz is 7$^{th}$ from the right end while Sudip is 22$^{nd}$ from the left end. How many people are there between Firoz and Sudip?**

**Ans**
A. 2
B. 5
C. 3
D. 4

**Q.97** **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. 5 – 15 – 45 – 145
B. 10 – 20 – 40 – 140
C. 9 – 27 – 54 – 164
D. 7 – 21 – 42 – 142

**Q.98** **What should come in place of ? in the given series?**
**20 30 46 68 96 ?**

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

**Q.99** **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. Three
B. Four
C. One
D. Two

**Q.100** **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-Y, iii-X only
C. ii-Z only
D. i-Z, ii-X, iii-Y

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