रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARD
सी ई एन - ०४/२०२५ - CEN - 04/2025
सेक्शन कंट्रोलर की भर्ती / Recruitment of Section Controller

सत्यमेव जयते

Test Date	11/02/2026
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 Six people, H, I, J, N, O and P, 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.
N lives on floor numbered 2. H lives on a floor below N. Only four people live between O and H. P lives on an even-numbered floor. J lives on an odd-numbered floor but not on floor number 5. How many people live between I and N?

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

Q.2 Two fair cubical dice, with the faces numbered from 1 to 6 in each of the dice, are rolled. What is the probability that the sum of the numbers on the two faces that appear on top is 8, given that each of the two faces that appear on top shows an odd number?

Ans
✗ A. $\frac{2}{5}$
✗ B. $\frac{5}{36}$
✓ C. $\frac{2}{9}$
✗ D. $\frac{1}{18}$

Q.3 The average height of 15 boys out of a class of 60 boys is 164 cm. If the average height of the remaining boys is 169 cm, then the average height of the whole class (in cm) is:

Ans
✗ A. 168.75
✗ B. 166.5
✗ C. 167.5
✓ D. 167.75

Q.4 Select the pair which follows the same pattern as that followed by the two pairs given below. Both pairs follow the same pattern.

HLH–DHD
LPL–HLH

Ans
✗ A. GJE–CGC
✓ B. GKG–CGC
✗ C. GKG–BGB
✗ D. GJE–BFB

Q.5 Given the ratio of the perimeters of two squares is 7:11, find the ratio of their areas.

Ans
✗ A. 121:7
✓ B. 49:121
✗ C. 7:121
✗ D. 121:49

Q.6 A solid metallic sphere of radius 12 cm is melted and recast into smaller spherical balls of 2 cm radius each. What will be the total surface area of all the spherical balls so obtained?

Ans
✓ A. 3456π sq. cm
✗ B. 2304π sq. cm
✗ C. 864π sq. cm
✗ D. 216π sq. cm

Q.7 Three identical cubes, each with edge 8 cm, are placed adjacent to each other to form a cuboid. What is the percentage decrease in the total surface area compared to the sum of surface areas of the three separate cubes? (Rounded off to two decimal places.)

Ans
✗ A. 20.24%
✗ B. 25.67%
✗ C. 27.53%
✓ D. 22.22%

Q.8 $\textit{The simplified value of } \frac{16}{45} \times (98 + 20) + 97 \textit{ is}$

Ans
✗ A. $\frac{6262}{45}$
✓ B. $\frac{6253}{45}$
✗ C. $\frac{6256}{45}$
✗ D. $\frac{6257}{45}$

Q.9 A shopkeeper marks an article at ₹x and offers a discount of 70% on it. He sells it for ₹384 after charging a VAT of 60% on the discounted price. What is the value of x?

Ans
✗ A. 600
✗ B. 900
✗ C. 1,000
✓ D. 800

Comprehension:

Read the passage and answer the questions that follow.

To succeed in today's competitive world, businesses must regularly review their methods and look for new ways to improve. Innovation means introducing fresh ideas, improving products or services, and finding more efficient ways to work. It helps companies boost profits, reduce costs, and satisfy customers. Technology can make products or services better, but it should be used wisely. Businesses must ensure that new tools or systems truly benefit their customers. For example, companies producing cars or appliances often have research teams to improve product quality and performance. Listening to customer feedback helps companies understand what people want. When McDonald's noticed that customers wanted healthier meals, it added salads and fruit to the menu and removed the "super-size" option. Sometimes innovation means creating new products for new markets. For instance, Nintendo expanded its audience in 2006 by launching the Wii, which appealed not only to boys but also to girls and older adults through games like Cooking Mama and Brain Training. Modern lifestyles demand convenience. Many people now prefer online banking, home deliveries, or mobile services instead of visiting stores or offices. Although not every innovation succeeds, trying new ideas allows businesses to grow, adapt, and better understand their customers.

SubQuestion No : 10

Q.10 Identify the central theme of the passage.

Ans

✗ A. The decline of traditional business models in the digital era

✗ B. The growing disconnection between companies and their consumers

✓ C. The role of innovation in sustaining business growth and relevance

✗ D. The dangers of relying excessively on technology

Comprehension:

Read the passage and answer the questions that follow.

To succeed in today's competitive world, businesses must regularly review their methods and look for new ways to improve. Innovation means introducing fresh ideas, improving products or services, and finding more efficient ways to work. It helps companies boost profits, reduce costs, and satisfy customers. Technology can make products or services better, but it should be used wisely. Businesses must ensure that new tools or systems truly benefit their customers. For example, companies producing cars or appliances often have research teams to improve product quality and performance. Listening to customer feedback helps companies understand what people want. When McDonald's noticed that customers wanted healthier meals, it added salads and fruit to the menu and removed the "super-size" option. Sometimes innovation means creating new products for new markets. For instance, Nintendo expanded its audience in 2006 by launching the Wii, which appealed not only to boys but also to girls and older adults through games like Cooking Mama and Brain Training. Modern lifestyles demand convenience. Many people now prefer online banking, home deliveries, or mobile services instead of visiting stores or offices. Although not every innovation succeeds, trying new ideas allows businesses to grow, adapt, and better understand their customers.

SubQuestion No : 11

Q.11 Which of the following facts is explicitly stated in the passage?

Ans

✗ A. Businesses must prioritize expansion over customer satisfaction

✗ B. Companies should abandon technology to maintain authenticity

✓ C. McDonald's added salads and fruit to meet consumer demand for healthier meals

✗ D. Nintendo failed to reach new audiences through its Wii console

Comprehension:

Read the passage and answer the questions that follow.

To succeed in today's competitive world, businesses must regularly review their methods and look for new ways to improve. Innovation means introducing fresh ideas, improving products or services, and finding more efficient ways to work. It helps companies boost profits, reduce costs, and satisfy customers. Technology can make products or services better, but it should be used wisely. Businesses must ensure that new tools or systems truly benefit their customers. For example, companies producing cars or appliances often have research teams to improve product quality and performance. Listening to customer feedback helps companies understand what people want. When McDonald's noticed that customers wanted healthier meals, it added salads and fruit to the menu and removed the "super-size" option. Sometimes innovation means creating new products for new markets. For instance, Nintendo expanded its audience in 2006 by launching the Wii, which appealed not only to boys but also to girls and older adults through games like Cooking Mama and Brain Training. Modern lifestyles demand convenience. Many people now prefer online banking, home deliveries, or mobile services instead of visiting stores or offices. Although not every innovation succeeds, trying new ideas allows businesses to grow, adapt, and better understand their customers.

SubQuestion No : 12

Q.12 Which of the following best reflects the connection to real-life business situations?

Ans

✓ A. Businesses that anticipate and respond to social trends maintain long-term success

✗ B. Technological innovation alone guarantees profitability

✗ C. Rigid adherence to traditional practices ensures stability

✗ D. Ignoring customer preferences strengthens brand loyalty

Comprehension:

Read the passage and answer the questions that follow.

To succeed in today's competitive world, businesses must regularly review their methods and look for new ways to improve. Innovation means introducing fresh ideas, improving products or services, and finding more efficient ways to work. It helps companies boost profits, reduce costs, and satisfy customers. Technology can make products or services better, but it should be used wisely. Businesses must ensure that new tools or systems truly benefit their customers. For example, companies producing cars or appliances often have research teams to improve product quality and performance. Listening to customer feedback helps companies understand what people want. When McDonald's noticed that customers wanted healthier meals, it added salads and fruit to the menu and removed the "super-size" option. Sometimes innovation means creating new products for new markets. For instance, Nintendo expanded its audience in 2006 by launching the Wii, which appealed not only to boys but also to girls and older adults through games like Cooking Mama and Brain Training. Modern lifestyles demand convenience. Many people now prefer online banking, home deliveries, or mobile services instead of visiting stores or offices. Although not every innovation succeeds, trying new ideas allows businesses to grow, adapt, and better understand their customers.

SubQuestion No : 13

Q.13 **Identify the tone of the passage.**

Ans

✔ A. Analytical and optimistic

✘ B. Indifferent and detached

✘ C. Pessimistic and cautionary

✘ D. Satirical and mocking

Comprehension:

Read the passage and answer the questions that follow.

To succeed in today's competitive world, businesses must regularly review their methods and look for new ways to improve. Innovation means introducing fresh ideas, improving products or services, and finding more efficient ways to work. It helps companies boost profits, reduce costs, and satisfy customers. Technology can make products or services better, but it should be used wisely. Businesses must ensure that new tools or systems truly benefit their customers. For example, companies producing cars or appliances often have research teams to improve product quality and performance. Listening to customer feedback helps companies understand what people want. When McDonald's noticed that customers wanted healthier meals, it added salads and fruit to the menu and removed the "super-size" option. Sometimes innovation means creating new products for new markets. For instance, Nintendo expanded its audience in 2006 by launching the Wii, which appealed not only to boys but also to girls and older adults through games like Cooking Mama and Brain Training. Modern lifestyles demand convenience. Many people now prefer online banking, home deliveries, or mobile services instead of visiting stores or offices. Although not every innovation succeeds, trying new ideas allows businesses to grow, adapt, and better understand their customers.

SubQuestion No : 14

Q.14 **Identify the antonym of the word 'adapt'.**

Ans

✘ A. Observe

✔ B. Resist

✘ C. Expand

✘ D. Create

Q.15 **Select the set in which the numbers are related in the same way as are the numbers of the following sets.**
(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding to/subtracting from/multiplying with 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(288,8,6)
(210,7,5)

Ans

✘ A. (316,7,8)

✘ B. (216,9,5)

✔ C. (252,7,6)

✘ D. (204,9,4)

Q.16 **The circumference of the base of a cylindrical vessel is 220 cm and its height is 60 cm. How many litres of water can it hold?**

Ans

✘ A. 233

✘ B. 216

✔ C. 231

✘ D. 202

Q.17 The 7-digit number 71A510B is divisible by 3. What is the maximum value of (A + B)?

Ans
- ✗ A. 12
- ✗ B. 13
- ✗ C. 11
- ✓ D. 16

Q.18 A can complete a piece of work in 57 days. B is 80% less efficient than A. C is 50% more efficient than B. B and C work together for 54 days. A alone will complete the remaining work in:

Ans
- ✗ A. 35 days
- ✓ B. 30 days
- ✗ C. 26 days
- ✗ D. 27 days

Q.19 Suman has a brother,Tushar. Tushar's daughter is Urmi. Urmi is married to Vikram; Vikram has a son, Yash. How is Urmi related to Suman?

Ans
- ✗ A. Wife
- ✗ B. Sister's daughter
- ✓ C. Brother's daughter
- ✗ D. Daughter

Q.20 If 2 is added to each odd digit and 1 is subtracted from each even digit in the number 7145632, then how many digits will appear more than once in the new number thus formed?

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

Q.21 The ratio of the heights of a right circular cone and a right circular cylinder is 2 : 9 and the ratio of the radii of their bases is 7 : 2. If the volume of the cylinder is 972 cm^3, then the volume (in cm^3) of the cone is:

Ans
- ✗ A. 891
- ✗ B. 885
- ✗ C. 889
- ✓ D. 882

Q.22 Pure ghee costs ₹120 per kg. After adulterating it with vegetable oil costing ₹60 per kg, a shopkeeper sells the mixture at the rate of ₹98 per kg, thereby making a profit of 40%. In what ratio does he mix the two?

Ans
- ✓ A. 1 : 5
- ✗ B. 2 : 5
- ✗ C. 3 : 7
- ✗ D. 2 : 7

Q.23 Each of G, H, I, J, N, O and P has a flight on a different day of a week, starting from Monday and ending on Sunday of the same week. Only one person has a flight after J. Only three people have flights between P and O. Only one person has a flight between H and N. Only two people have flights between J and P. I has a flight immediately before H. How many people have flights between G and H?

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

Q.24 By how much is 30% of 65 greater than 35% of 50?

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

Q.25 Each of the digits in the number 3187569 is arranged in ascending order from left to right. What will be the sum of the digits which are first from the left and first from the right in the new number thus formed?

Ans
- ✗ A. 11
- ✗ B. 8
- ✓ C. 10
- ✗ D. 12

Q.26 A dealer buys two articles X and Y for ₹500 each. He marks each of them at the same price. He sells X by giving two successive discounts of 31% and 25% and still earns ₹328 as profit. If he sells Y at a single discount of 61%, then what is the profit percentage on Y?

Ans
- ✗ A. 23.8%
- ✓ B. 24.8%
- ✗ C. 23%
- ✗ D. 24%

Q.27 Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of ::?

 # : FKG :: PUQ : %

Ans
- ✗ A. # = LIO, % = MNK
- ✗ B. # = HJM, % = JLP
- ✗ C. # = LIM, % = JZK
- ✓ D. # = LQM, % = JOK

Q.28 Refer to the following number-symbol series and answer the question that follows. Counting is to be done from left to right only. (Note: All numbers are single-digit numbers only)

(Left) 7 3 / 3 ^ $ 2 < * $ \ 8 ? + 3 @ 8 ^ @ \ < (Right)

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

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

Q.29 The following data pertaining to the number of insects per plant. Find median number of insects per plant.

Number of insects per plant (x)	1	2	3	4	5	6	7	8	9	10	11	12
No. of plants (f)	1	3	5	6	10	13	9	5	3	2	2	1

Ans
- ✗ A. 9
- ✗ B. 5
- ✓ C. 6
- ✗ D. 8

Q.30 An arithmetic progression has 42 as its first term, 60 as its last term, and a total of 14 terms. What is the sum of these 14 terms?

Ans
✗ A. 711
✗ B. 716
✓ C. 714
✗ D. 717

Q.31 Find the mode (in ₹) for the following set of data of income of 40 people (rounded off to nearest integer).

Income (in ₹): 1000-1200 1200-1400 1400-1600 1600-1800 1800-2000
Number of people: 5 8 15 7 5

Ans
✗ A. 1535
✓ B. 1493
✗ C. 1522
✗ D. 1456

Q.32 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 – C, D, E and F are seated and all of them are facing south.
In row 2 – J,K, L and M are seated and all of them are facing north.
Thus each person faces another person from the other row. C sits third to the right of E. The one facing M is an immediate neighbour of E. The one facing D is an immediate neighbour of M. The one facing C is an immediate neighbour of L.J sits at some place to the left of K.
Who amongst the following faces L?

Ans
✗ A. F
✗ B. E
✓ C. D
✗ D. C

Q.33 At a health club, 55% of the members are women and 45% of the members are men. If the average age of the men is 50 years and the average age of the women is 40 years, what is the average age (in years) of all the members?

Ans
✗ A. 43.8
✓ B. 44.5
✗ C. 43.6
✗ D. 44.9

Q.34 The following table shows the price (in ₹ per 100 kg) of different items during different years. Answer the given question based on this table. What is the average price (in ₹ per 10 kg) of pulses from the years 1990 to 2010?

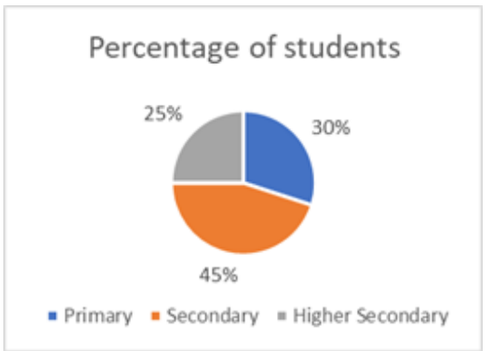
	1990	1995	2000	2005	2010
Rice	800	1150	1680	2400	3500
Wheat	450	700	1200	1650	2100
Pulses	2000	2700	3650	4600	6400
Sugar	1500	2200	3000	3800	4500
Groundnut	1200	1700	2450	3500	4200
Oil	4200	5500	6400	800	11000

Ans
✗ A. 394
✓ B. 387
✗ C. 414
✗ D. 404

Q.35 Two taps can fill a cistern in 3 hours and 48 hours, respectively. A third tap can empty the filled cistern in 48 hours. How long (in hours) will it take to fill two-third of the empty cistern if all of them are opened together?

Ans
- ✗ A. 8
- ✗ B. 6
- ✗ C. 4
- ✓ D. 2

Q.36 The pie-chart shows percentage of students availing scholarship in a school. If the total strength of the school is 3850 and the ratio of students in primary section to secondary section to higher secondary section is 5 : 4 : 2, find the number of secondary students who availed the scholarship.



Ans
- ✗ A. 788
- ✓ B. 630
- ✗ C. 670
- ✗ D. 742

Q.37 This question is based on the five, three-digit numbers given below.

(Left) 756 723 789 347 359 (Right)

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

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

Ans
- ✗ A. 11
- ✓ B. 14
- ✗ C. 12
- ✗ D. 9

Q.38 The 7-digit number 98A038B is divisible by 3. What is the maximum value of (A + B)?

Ans
- ✓ A. 17
- ✗ B. 16
- ✗ C. 18
- ✗ D. 12

Q.39 If a man travels at the rate of 12 kmph, he misses a train by 7 minutes. However, if he travels at the rate of 30 kmph, he reaches the station 5 minutes before the arrival of the train. Find the distance covered by him to reach the station.

Ans
- ✗ A. 12 km
- ✓ B. 4 km
- ✗ C. 14 km
- ✗ D. 8 km

Q.40 The HCF of two numbers is 12, and their product is 31,104. How many such pairs of numbers are possible?

Ans
✗ A. 4
✓ B. 2
✗ C. 5
✗ D. 1

Q.41 The given table shows the distribution of weekly wages (₹) of workers. Find the mode.

Wages (₹)	100–150	150–200	200–250	250–300	300–350
Frequency	6	12	15	24	15

Ans
✗ A. 270
✓ B. 275
✗ C. 265
✗ D. 260

Q.42 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:
Some pen are lead.
Some lead are ruler.

Conclusions:
(I): Some pen are ruler.
(II): All ruler are lead.

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

Q.43 A brick measures 5 m in length, 4 m in breadth and 3 cm in height. How many bricks will be used to make a wall of length 15 m, breadth 20 m and height 4 m?

Ans
✗ A. 200
✓ B. 2,000
✗ C. 20
✗ D. 20,000

Q.44 The circumference of the base of a solid right circular cylinder is 88 cm and its height is 153 cm. What is the volume (in cm^3) of the cylinder?

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

Ans
✗ A. 94,453
✗ B. 95,071
✗ C. 93,794
✓ D. 94,248

Q.45 $The\ simplified\ value\ of\ \frac{(98^6 \times 18^{14} \times 2^{15})}{(98^5 \times 18^{13} \times 2^{13})}\ is$

Ans
✗ A. 7058
✓ B. 7056
✗ C. 7051
✗ D. 7055

Q.46 A and B have incomes in the ratio 4:3 and expenditures in the ratio 2:1. If A saves ₹5,000 and B saves ₹6,000, then A's expenditure exceeds B's by how much?

Ans
- ✗ A. ₹3,000
- ✗ B. ₹5,000
- ✗ C. ₹3,500
- ✓ D. ₹4,500

Q.47 If 2 is added to each odd digit and 1 is subtracted from each even digit in the number 1326342, then what will be the difference between the highest and the lowest digits in the number thus formed?

Ans
- ✓ A. 4
- ✗ B. 6
- ✗ C. 5
- ✗ D. 7

Q.48 Kavita, Rakesh, and Shalini invested in a business in the ratio 5:8:15. They invested their capitals for 8 months, 7 months and 4 months, respectively. What was the ratio of their profits?

Ans
- ✓ A. 10:14:15
- ✗ B. 13:14:15
- ✗ C. 11:14:15
- ✗ D. 12:14:15

Q.49 Box A contains 5 red and 4 white marbles and box B contains 3 red and 6 white marbles. If a marble is drawn from each box, what is the probability that they are both of the same colour?

Ans
- ✗ A. $\frac{19}{27}$
- ✓ B. $\frac{13}{27}$
- ✗ C. $\frac{17}{27}$
- ✗ D. $\frac{11}{27}$

Q.50 A conical tent was erected by Army at a base camp to accommodate people. The height of the tent is 42 m and the area of the base camp is 200 m^2. If each person requires 70 m^3 of air to breathe, how many persons can be accommodated in that tent? (Use π = 22/7)

Ans
- ✗ A. 60
- ✓ B. 40
- ✗ C. 50
- ✗ D. 45

Q.51 The sum of two positive numbers is 32 and their product is 112. The positive difference between them is:

Ans
- ✗ A. 22
- ✗ B. 20
- ✓ C. 24
- ✗ D. 18

Q.52 Six people, H, I, J, N, O and P, live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it, numbered 2 and so on, till the topmost floor, which is numbered 6. Only two people live between N and P. No one lives above I. Only two people live between I and O. Only four people live between I and H. N lives above O. How many people live below J?

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

Q.53 If 'P' stands for '÷' , 'Q' stands for '×', 'R' stands for '+' and 'S' stands for '–' , then what will be come in place of question mark (?) in the following equation?

44 Q 8 S 91 P 13 R 67 = ?

Ans
✗ A. 421
✗ B. 451
✓ C. 412
✗ D. 415

Q.54 Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which letter-cluster pair DOES NOT belong to that group?
(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans
✗ A. MN–PQ
✓ B. TU-XY
✗ C. RS–UV
✗ D. DE–GH

Q.55 The sum of the present ages of Hitesh and Jitesh is 96 years. After 2 years from now, Hitesh's age will be three times that of Jitesh. Hitesh's present age (in years) is:

Ans
✗ A. 76
✗ B. 67
✓ C. 73
✗ D. 75

Q.56 Two triangles have the same base of 24 cm. The ratio of their heights is 5 : 7 and the sum of their areas is 1728 cm^2. What is the height of the larger triangle?

Ans
✗ A. 72 cm
✗ B. 78 cm
✗ C. 90 cm
✓ D. 84 cm

Q.57 The average of 8 numbers is 59. If each number is increased by 4, what will the new average be?

Ans
✓ A. 63
✗ B. 8
✗ C. 59
✗ D. 67

Q.58 An arithmetic progression has 42 as its first term and 55 as its last term, with a total of 10 terms. What is the sum of these 10 terms?

Ans
✗ A. 484
✓ B. 485
✗ C. 488
✗ D. 487

Q.59 **In the following series, only one letter-cluster is incorrect. Select the INCORRECT letter-cluster.**

ODL IJE CPD WVZ QBV

Ans
- ✗ A. QBN
- ✗ B. ODL
- ✗ C. WVR
- ✓ D. IJE

Comprehension:

Read the passage and answer the questions.

Spiders inhabit every continent except Antarctica and play dual roles as predators and prey. They employ varied hunting tactics — spinning intricate webs to ensnare victims or ambushing them from concealment. Except for the herbivorous Bagheera kiplingi, these eight-legged carnivores subsist mainly on insects, though some consume lizards, birds, frogs, fish, or even snakes. Certain species prey on other spiders, while female widow spiders notoriously devour their mates. Spiders themselves fall victim to lizards, birds, scorpions, and even parasitic wasps that entomb them alive. In parts of the South Pacific and Southeast Asia, they are considered edible delicacies. Most spiders possess venom designed to immobilise prey, not humans. Only about 25 known species produce venom harmful to humans, and fatalities are exceedingly rare. The feared Sydney funnel-web spider has caused no deaths since the 1981 anti-venom. Hairy spiders such as tarantulas defend themselves by releasing urticating hairs that irritate skin and eyes. Spiders create multiple kinds of silk — some adhesive for trapping, others remarkably strong. Orb-weaver silk rivals steel in tensile strength, and scientists have replicated it synthetically for applications from artificial tissue to resilient sportswear. Despite their adaptability, spiders generally remain near their habitats; only 'ballooning spiders' travel long distances. Ironically, although many fear them, less than 2% of species are harmful to humans.

SubQuestion No : 60

Q.60 **Which title best encapsulates the passage?**

Ans
- ✗ A. Webs of Death and Silk of Steel
- ✗ B. Arachnophobia: A Human Weakness
- ✓ C. Spiders: Fearsome Yet Fascinating Creatures
- ✗ D. Deadly Predators of the Insect World

Comprehension:

Read the passage and answer the questions.

Spiders inhabit every continent except Antarctica and play dual roles as predators and prey. They employ varied hunting tactics — spinning intricate webs to ensnare victims or ambushing them from concealment. Except for the herbivorous Bagheera kiplingi, these eight-legged carnivores subsist mainly on insects, though some consume lizards, birds, frogs, fish, or even snakes. Certain species prey on other spiders, while female widow spiders notoriously devour their mates. Spiders themselves fall victim to lizards, birds, scorpions, and even parasitic wasps that entomb them alive. In parts of the South Pacific and Southeast Asia, they are considered edible delicacies. Most spiders possess venom designed to immobilise prey, not humans. Only about 25 known species produce venom harmful to humans, and fatalities are exceedingly rare. The feared Sydney funnel-web spider has caused no deaths since the 1981 anti-venom. Hairy spiders such as tarantulas defend themselves by releasing urticating hairs that irritate skin and eyes. Spiders create multiple kinds of silk — some adhesive for trapping, others remarkably strong. Orb-weaver silk rivals steel in tensile strength, and scientists have replicated it synthetically for applications from artificial tissue to resilient sportswear. Despite their adaptability, spiders generally remain near their habitats; only 'ballooning spiders' travel long distances. Ironically, although many fear them, less than 2% of species are harmful to humans.

SubQuestion No : 61

Q.61 **Which spider is known to have caused no fatalities since the anti-venom's development in 1981?**

Ans
- ✗ A. Orb-weaver spider
- ✗ B. Tarantula
- ✓ C. Sydney funnel-web spider
- ✗ D. Widow spider

Comprehension:

Read the passage and answer the questions.

Spiders inhabit every continent except Antarctica and play dual roles as predators and prey. They employ varied hunting tactics — spinning intricate webs to ensnare victims or ambushing them from concealment. Except for the herbivorous Bagheera kiplingi, these eight-legged carnivores subsist mainly on insects, though some consume lizards, birds, frogs, fish, or even snakes. Certain species prey on other spiders, while female widow spiders notoriously devour their mates. Spiders themselves fall victim to lizards, birds, scorpions, and even parasitic wasps that entomb them alive. In parts of the South Pacific and Southeast Asia, they are considered edible delicacies. Most spiders possess venom designed to immobilise prey, not humans. Only about 25 known species produce venom harmful to humans, and fatalities are exceedingly rare. The feared Sydney funnel-web spider has caused no deaths since the 1981 anti-venom. Hairy spiders such as tarantulas defend themselves by releasing urticating hairs that irritate skin and eyes. Spiders create multiple kinds of silk — some adhesive for trapping, others remarkably strong. Orb-weaver silk rivals steel in tensile strength, and scientists have replicated it synthetically for applications from artificial tissue to resilient sportswear. Despite their adaptability, spiders generally remain near their habitats; only 'ballooning spiders' travel long distances. Ironically, although many fear them, less than 2% of species are harmful to humans.

SubQuestion No : 62

Q.62 **What does the passage suggest about the perception versus reality of spiders?**

Ans

✔ A. Though generally feared, almost 98 percent of spider species are harmless to humans.

✘ B. They survive best in Arctic conditions.

✘ C. They are responsible for widespread disease.

✘ D. They are far more dangerous than people realise.

Comprehension:

Read the passage and answer the questions.

Spiders inhabit every continent except Antarctica and play dual roles as predators and prey. They employ varied hunting tactics — spinning intricate webs to ensnare victims or ambushing them from concealment. Except for the herbivorous Bagheera kiplingi, these eight-legged carnivores subsist mainly on insects, though some consume lizards, birds, frogs, fish, or even snakes. Certain species prey on other spiders, while female widow spiders notoriously devour their mates. Spiders themselves fall victim to lizards, birds, scorpions, and even parasitic wasps that entomb them alive. In parts of the South Pacific and Southeast Asia, they are considered edible delicacies. Most spiders possess venom designed to immobilise prey, not humans. Only about 25 known species produce venom harmful to humans, and fatalities are exceedingly rare. The feared Sydney funnel-web spider has caused no deaths since the 1981 anti-venom. Hairy spiders such as tarantulas defend themselves by releasing urticating hairs that irritate skin and eyes. Spiders create multiple kinds of silk — some adhesive for trapping, others remarkably strong. Orb-weaver silk rivals steel in tensile strength, and scientists have replicated it synthetically for applications from artificial tissue to resilient sportswear. Despite their adaptability, spiders generally remain near their habitats; only 'ballooning spiders' travel long distances. Ironically, although many fear them, less than 2% of species are harmful to humans.

SubQuestion No : 63

Q.63 **According to the passage, spider silk replication is significant because _____.**

Ans

✘ A. it may replace metal in construction

✘ B. it allows mass spider farming

✔ C. it enables scientists to produce a material with exceptional tensile strength.

✘ D. it can eliminate natural predators

Comprehension:

Read the passage and answer the questions.

Spiders inhabit every continent except Antarctica and play dual roles as predators and prey. They employ varied hunting tactics — spinning intricate webs to ensnare victims or ambushing them from concealment. Except for the herbivorous Bagheera kiplingi, these eight-legged carnivores subsist mainly on insects, though some consume lizards, birds, frogs, fish, or even snakes. Certain species prey on other spiders, while female widow spiders notoriously devour their mates. Spiders themselves fall victim to lizards, birds, scorpions, and even parasitic wasps that entomb them alive. In parts of the South Pacific and Southeast Asia, they are considered edible delicacies. Most spiders possess venom designed to immobilise prey, not humans. Only about 25 known species produce venom harmful to humans, and fatalities are exceedingly rare. The feared Sydney funnel-web spider has caused no deaths since the 1981 anti-venom. Hairy spiders such as tarantulas defend themselves by releasing urticating hairs that irritate skin and eyes. Spiders create multiple kinds of silk — some adhesive for trapping, others remarkably strong. Orb-weaver silk rivals steel in tensile strength, and scientists have replicated it synthetically for applications from artificial tissue to resilient sportswear. Despite their adaptability, spiders generally remain near their habitats; only 'ballooning spiders' travel long distances. Ironically, although many fear them, less than 2% of species are harmful to humans.

SubQuestion No : 64

Q.64 **Identify the synonym of the word 'replicated' as used in the passage.**

Ans

✗ A. Tested

✗ B. Modified

✓ C. Copied

✗ D. Destroyed

Q.65 **The marks scored by 10 students are given below.**

16, 13, 20, 18, 16, 14, 18, 11, 10, 16

The mode of the data is:

Ans

✗ A. 13

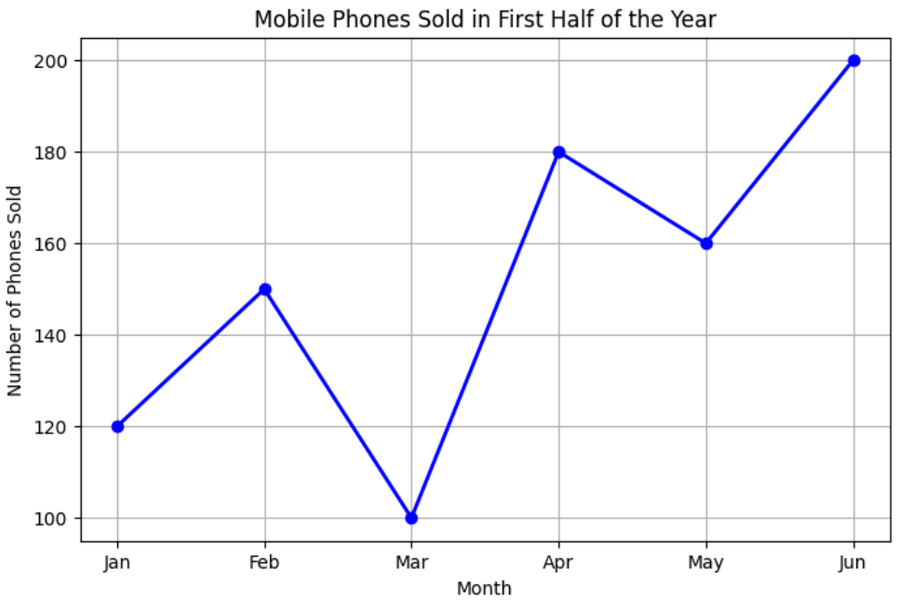
✓ B. 16

✗ C. 20

✗ D. 18

Q.66 **Study the line graph and answer the question that follows.**

The given line graph shows the number of mobile phones sold by a store during the first six months of a year.



(Note: Number of phones sold in February were 150.)

Find the average monthly sales of phones. (Round off your answer to the nearest integer.)

Ans
- ✗ A. 174
- ✗ B. 150
- ✗ C. 162
- ✓ D. 152

Q.67 **The amount of extension in an elastic string varies directly with the weight hung on it. If a weight of 127 gm produces an extension of 2.3 cm, then what weight would produce an extension of 16.1 cm?**

Ans
- ✓ A. 889 gm
- ✗ B. 762 gm
- ✗ C. 1048 gm
- ✗ D. 917 gm

Q.68 **What should come in place of the question mark (?) in the given series?**

91 92 96 97 101 ?

Ans
- ✗ A. 104
- ✓ B. 102
- ✗ C. 101
- ✗ D. 103

Q.69 **Three cubes of sides 1 cm, 6 cm and 8 cm are melted to form a new cube. Find $(\frac{2}{3})$rd of the surface area of the new cube.**

Ans
- ✗ A. 486 cm2
- ✗ B. 648 cm2
- ✓ C. 324 cm2
- ✗ D. 162 cm2

Q.70 If a man bought 8 erasers for ₹4, and sold them at 5 erasers for ₹8, then the gain percentage is:

Ans
- ✗ A. 240%
- ✗ B. 230%
- ✗ C. 210%
- ✓ D. 220%

Q.71 Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?

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

Ans
- ✓ A. WUR
- ✗ B. NLH
- ✗ C. FDZ
- ✗ D. ZXT

Q.72 If the sides of a triangle are 12 cm, 35 cm and 37 cm, then the circum radius is:

Ans
- ✗ A. 17.0 cm
- ✓ B. 18.5 cm
- ✗ C. 16.5 cm
- ✗ D. 16.0 cm

Q.73 The mode and median of a data are 13.8 and 64, respectively. What is the mean of the data? (Use empirical formula.)

Ans
- ✗ A. 92.1
- ✓ B. 89.1
- ✗ C. 93.3
- ✗ D. 80.4

Q.74 The simplified value of 83 - [84 - (96 ÷ 4 - (16 - 36 ÷ 9) ÷ 2)] is:

Ans
- ✗ A. 18
- ✓ B. 17
- ✗ C. 14
- ✗ D. 22

Comprehension:

Read the given passage carefully and answer the questions that follow.

The Peloponnesian War, chronicled by the ancient historian Thucydides, was sparked by the rise of Athens and the fear this instilled in the established power, Sparta. This dynamic—when a rising power threatens to displace a ruling power—has been termed the 'Thucydides's Trap' by political scientist Graham Allison. The central argument is that such structural shifts in the balance of power create a high risk of conflict, not necessarily because of deliberate aggression, but often through a combination of fear, misunderstanding, and the friction of third-party events. The ruling power, fearing the loss of its privileged position, may resort to preemptive action, while the rising power, emboldened by its new strength, may become more assertive in claiming what it perceives as its rightful place. Allison's research points to a sobering historical precedent: in 12 of 16 cases over the last 500 years where a major nation rose to challenge an established one, the result was war. However, the trap is not an iron law of history. Whether the trap is 'sprung' depends heavily on the choices, strategies, and diplomatic skill of the leaders involved. The concept serves not as a prediction of inevitable conflict, but as a potent analytical lens and a stark warning for contemporary statecraft in an era of great power transition.

SubQuestion No : 75

Q.75 Which of the following is the most suitable title for the passage?

Ans
- ✗ A. The Complete History of Ancient Greece
- ✗ B. A Biography of Graham Allison
- ✗ C. The Economics of Modern China
- ✓ D. The Thucydides's Trap: The Inevitability of Hegemonic War?

Comprehension:

Read the given passage carefully and answer the questions that follow.

The Peloponnesian War, chronicled by the ancient historian Thucydides, was sparked by the rise of Athens and the fear this instilled in the established power, Sparta. This dynamic—when a rising power threatens to displace a ruling power—has been termed the 'Thucydides's Trap' by political scientist Graham Allison. The central argument is that such structural shifts in the balance of power create a high risk of conflict, not necessarily because of deliberate aggression, but often through a combination of fear, misunderstanding, and the friction of third-party events. The ruling power, fearing the loss of its privileged position, may resort to preemptive action, while the rising power, emboldened by its new strength, may become more assertive in claiming what it perceives as its rightful place. Allison's research points to a sobering historical precedent: in 12 of 16 cases over the last 500 years where a major nation rose to challenge an established one, the result was war. However, the trap is not an iron law of history. Whether the trap is 'sprung' depends heavily on the choices, strategies, and diplomatic skill of the leaders involved. The concept serves not as a prediction of inevitable conflict, but as a potent analytical lens and a stark warning for contemporary statecraft in an era of great power transition.

SubQuestion No : 76

Q.76 What is the central theme of this passage?

Ans

✗ A. It is a detailed military analysis of the Peloponnesian War.

✗ B. It claims that economic factors are the only cause of war.

✓ C. The passage is based upon the historical dynamic where the rise of a new power creates a high risk of conflict with an established power, and the factors that influence this outcome.

✗ D. It argues that war between a rising and ruling power is completely inevitable and unavoidable.

Comprehension:

Read the given passage carefully and answer the questions that follow.

The Peloponnesian War, chronicled by the ancient historian Thucydides, was sparked by the rise of Athens and the fear this instilled in the established power, Sparta. This dynamic—when a rising power threatens to displace a ruling power—has been termed the 'Thucydides's Trap' by political scientist Graham Allison. The central argument is that such structural shifts in the balance of power create a high risk of conflict, not necessarily because of deliberate aggression, but often through a combination of fear, misunderstanding, and the friction of third-party events. The ruling power, fearing the loss of its privileged position, may resort to preemptive action, while the rising power, emboldened by its new strength, may become more assertive in claiming what it perceives as its rightful place. Allison's research points to a sobering historical precedent: in 12 of 16 cases over the last 500 years where a major nation rose to challenge an established one, the result was war. However, the trap is not an iron law of history. Whether the trap is 'sprung' depends heavily on the choices, strategies, and diplomatic skill of the leaders involved. The concept serves not as a prediction of inevitable conflict, but as a potent analytical lens and a stark warning for contemporary statecraft in an era of great power transition.

SubQuestion No : 77

Q.77 Which of the following is a fact explicitly stated in the passage?

Ans

✓ A. The concept is named after the historian who chronicled the Peloponnesian War.

✗ B. The passage states that the actions and choices of leaders are irrelevant to the outcome.

✗ C. According to the passage, war occurred in all 16 historical cases studied.

✗ D. The 'Thucydides's Trap' is a concept invented by a biologist.

Comprehension:

Read the given passage carefully and answer the questions that follow.

The Peloponnesian War, chronicled by the ancient historian Thucydides, was sparked by the rise of Athens and the fear this instilled in the established power, Sparta. This dynamic—when a rising power threatens to displace a ruling power—has been termed the 'Thucydides's Trap' by political scientist Graham Allison. The central argument is that such structural shifts in the balance of power create a high risk of conflict, not necessarily because of deliberate aggression, but often through a combination of fear, misunderstanding, and the friction of third-party events. The ruling power, fearing the loss of its privileged position, may resort to preemptive action, while the rising power, emboldened by its new strength, may become more assertive in claiming what it perceives as its rightful place. Allison's research points to a sobering historical precedent: in 12 of 16 cases over the last 500 years where a major nation rose to challenge an established one, the result was war. However, the trap is not an iron law of history. Whether the trap is 'sprung' depends heavily on the choices, strategies, and diplomatic skill of the leaders involved. The concept serves not as a prediction of inevitable conflict, but as a potent analytical lens and a stark warning for contemporary statecraft in an era of great power transition.

SubQuestion No : 78

Q.78 Based on the passage, which inference can logically be drawn?

Ans

✗ A. The author of the passage believes that war between a rising and ruling power is 100% certain.

✗ B. It can be inferred that Thucydides himself coined the term 'Thucydides's Trap'.

✓ C. One can infer that the concept is used today to analyze the strategic relationship between the United States and China.

✗ D. The passage implies that diplomacy is useless in preventing hegemonic conflict.

Comprehension:

Read the given passage carefully and answer the questions that follow.

The Peloponnesian War, chronicled by the ancient historian Thucydides, was sparked by the rise of Athens and the fear this instilled in the established power, Sparta. This dynamic—when a rising power threatens to displace a ruling power—has been termed the 'Thucydides's Trap' by political scientist Graham Allison. The central argument is that such structural shifts in the balance of power create a high risk of conflict, not necessarily because of deliberate aggression, but often through a combination of fear, misunderstanding, and the friction of third-party events. The ruling power, fearing the loss of its privileged position, may resort to preemptive action, while the rising power, emboldened by its new strength, may become more assertive in claiming what it perceives as its rightful place. Allison's research points to a sobering historical precedent: in 12 of 16 cases over the last 500 years where a major nation rose to challenge an established one, the result was war. However, the trap is not an iron law of history. Whether the trap is 'sprung' depends heavily on the choices, strategies, and diplomatic skill of the leaders involved. The concept serves not as a prediction of inevitable conflict, but as a potent analytical lens and a stark warning for contemporary statecraft in an era of great power transition.

SubQuestion No : 79

Q.79 **Which of the following best describes the tone of the passage?**

Ans

✔ A. Analytical and cautionary.

✘ B. Joyful and optimistic.

✘ C. Panicked and alarmist.

✘ D. Dismissive and sarcastic.

Q.80 **Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of ::?**

 # : ZQV :: PGK : %

Ans

✘ A. # = XTR, % = LJG

✘ B. # = WTU, % = LKH

✘ C. # = XUT, % = MJO

✔ D. # = XOS, % = RIN

Q.81 **AB is parallel to CD. A transversal PQ intersects AB and CD at E and F, respectively, and ∠PEB = 49°. G is a point between AB and CD such that ∠BEG = 29° and ∠GFE = 24°. What is the measure of ∠EGF?**

Ans

✔ A. 54°

✘ B. 62°

✘ C. 60°

✘ D. 66°

Q.82 **In a circular race of 2715 m, Abhay and Bharti start from the same point and at the same time with speeds of 20 km/h and 34 km/h, respectively. After how long will they meet again for the first time on the track when they are running in the opposite directions?**

Ans

✘ A. 186 seconds

✔ B. 181 seconds

✘ C. 178 seconds

✘ D. 187 seconds

Q.83 **Two circles with centres O and O′, with radii 6 cm and 8 cm, respectively, intersect at two points A and B. If OA is a tangent to the circle with centre O′ and vice versa, what is the length of the common chord AB?**

Ans

✘ A. 11.44 cm

✔ B. 9.60 cm

✘ C. 14.23 cm

✘ D. 13.55 cm

Q.84 After successive discounts of 12% and 5% an article was sold for ₹418. What was the original price of the article?

Ans
- ✔ A. ₹500
- ✘ B. ₹536
- ✘ C. ₹516
- ✘ D. ₹496

Q.85 Dev and Tej started a business by investing amounts of ₹2,450 and ₹1,960, respectively. If Dev's share in the profit earned by them is ₹270, what is the total profit (in ₹) earned by them together?

Ans
- ✘ A. 342
- ✘ B. 443
- ✘ C. 526
- ✔ D. 486

Q.86 Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster DOES NOT belong to that group?

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

Ans
- ✘ A. WBDH
- ✘ B. QVXB
- ✘ C. FKMQ
- ✔ D. BGIN

Q.87 This question is based on the five, three-digit numbers given below.

(Left) 321 354 387 627 681 (Right)

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

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

Ans
- ✘ A. 4
- ✘ B. 2
- ✔ C. 3
- ✘ D. 7

Q.88 The H.C.F. and the L.C.M. of two numbers are 13 and 585, respectively. If one of the numbers is 117, then find the other number.

Ans
- ✔ A. 65
- ✘ B. 78
- ✘ C. 13
- ✘ D. 52

Q.89 In the following series, only one letter-cluster is incorrect. Select the INCORRECT letter-cluster.

TDN DNX NXH XHR HRB ROL

Ans
- ✘ A. HRB
- ✔ B. ROL
- ✘ C. TDN
- ✘ D. DNX

Q.90 In what ratio must a grocer mix two varieties of wheat worth ₹94 per kg and ₹116 per kg, so that if he sells the mixture at ₹144 per kg, he may gain 44%?

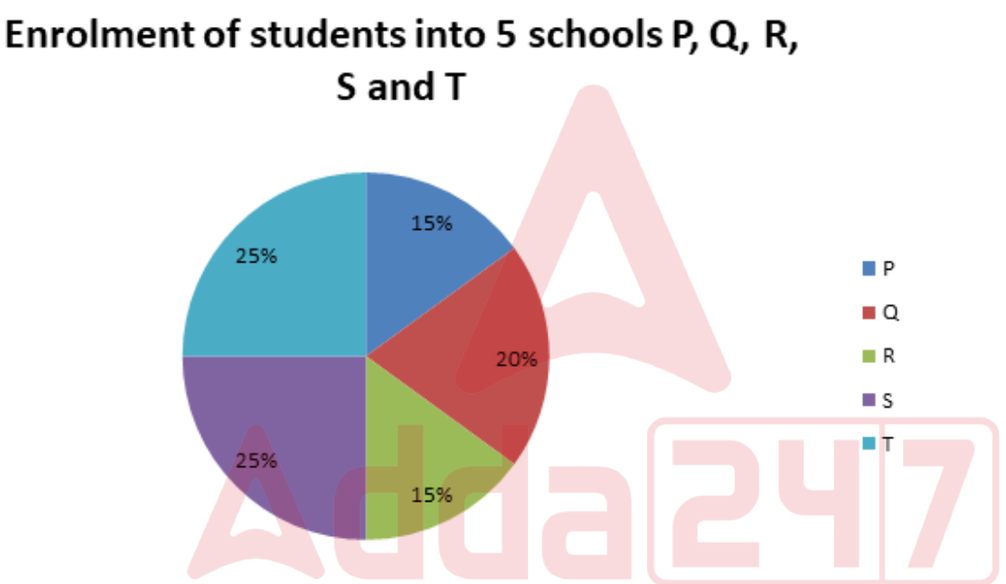
Ans
- ✔ A. 8:3
- ✘ B. 9:4
- ✘ C. 7:3
- ✘ D. 5:2

Q.91 Find an estimate of the variance of the following data (rounded off to two decimal places).

Class: 0-10 10-20 20-30 30-40 40-50
Frequency: 8 16 24 25 17

Ans
- ✔ A. 147.67
- ✘ B. 190.34
- ✘ C. 185.05
- ✘ D. 163.11

Q.92 The following pie chart shows the enrolment of students into tenth class in 5 different schools: P, Q, R, S and T. The total number of students enrolled is 2,000. Study the chart and answer the question that follows.



Find the total number of students enrolled in schools P, R and S.

Ans
- ✘ A. 1,200
- ✔ B. 1,100
- ✘ C. 1,000
- ✘ D. 1,400

Q.93 The current population of a town is 16,000. It increases by 40% and 25% in two successive years but decreases by 62% in the third year. What is the population of the town at the end of the third year?

Ans
- ✔ A. 10,640
- ✘ B. 10,638
- ✘ C. 10,639
- ✘ D. 10,642

Q.94 In a certain code language, 'DRAW' is coded as '6924' and 'WINS' is coded as '1356'. What is the code for 'W' in the given code language?

Ans
✗ A. 1
✗ B. 4
✓ C. 6
✗ D. 3

Q.95 A retailer buys an electronic item for ₹230. His overhead expenses are ₹10. He sells the electronic item for ₹480 and makes x% profit. The value of x is:

Ans
✗ A. 90
✓ B. 100
✗ C. 80
✗ D. 120

Q.96 To complete a project, 12 men work for 10 days, working 9 hours per day. How many hours per day should 16 men work to finish the project in 5 days?

Ans
✗ A. 11.5
✗ B. 10.5
✗ C. 12.5
✓ D. 13.5

Q.97 Eight persons A, B, C, D, E, F, G and H 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 centres of the sides. B is sitting second to the left of E. E is sitting at the centre of one of the sides. Only three people are sitting between G and B when counted from the left of B. D is sitting to the immediate right of G. Only one person is sitting between F and D when counted from the left of F. F is not an immediate neighbour of E. A is sitting third to the right of B. C is sitting to the immediate left of E. How many people are sitting between H and B when counted from the left of B?

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

Q.98 The median of the following data is 350.

Class Interval	Frequency
0 - 100	4
100 - 200	6
200 - 300	x
300 - 400	10
400 - 500	y
500 - 600	8

What are the values of x and y if the total frequency is 40?

Ans
✗ A. x = 8, y = 4
✗ B. x = 6, y = 6
✓ C. x = 5, y = 7
✗ D. x = 3, y = 9

Q.99 Simplify: $\sqrt{289} + \sqrt{0.0289} - \sqrt{4.84}$

Ans
✓ A. 14.97
✗ B. 8.19
✗ C. 1.11
✗ D. 8.76

Q.100 The ratio of Ruby and Anita's salary is 4 : 3. Ruby and Anita receive a festival allowance of ₹1,000 and ₹2,000, respectively, in a certain month, which makes the ratio of their salary as 5 : 4. Find the difference in the salaries (in ₹) of Ruby and Anita.

Ans
- ✗ A. 7,000
- ✗ B. 6,500
- ✓ C. 6,000
- ✗ D. 5,200

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