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**Memory Based Paper
(Numerical Ability)
05 Feb, 2024**



25 Questions

Que. 1 What will be the least number which when doubled will be exactly divisible by 12, 18, 21 and 30?

1. 196
2. 630
3. 1260
4. 2520

Correct Option - 2

Que. 2 Successive discount of 15% and 35% is equivalent to a single discount of:

1. 42.28%
2. 12.5%
3. 44.75%
4. 33.33%

Correct Option - 3

Que. 3 The halves of the diagonals of a rhombus are 75 cm and 90 cm. Find its area.

1. 6750 cm²
2. 27000 cm²
3. 3375 cm²
4. 13500 cm²

Correct Option - 4

Que. 4 **DIRECTIONS:** What approximate value will come in place of the question mark (?) in the following question?

$$15.5\% \text{ of } 850 + 24.8\% \text{ of } 650 = ?$$

1. 293
2. 385
3. 210
4. 375

Correct Option - 1

Que. 5 A certain number is subtracted from each of the numbers 20, 24 and 29. After subtraction, those numbers are in proportional. What is the number subtracted?

1. 6

2. 4
3. 5
4. 3

Correct Option - 2

Que. 6 A dealer marks his goods at 44% above the cost price. Then he allows 50% discount on it. What would be his loss percentage?

1. 25%
2. 28%
3. 26%
4. 32%

Correct Option - 2

Que. 7 The value of $(1 + (1 - 2)^{-1} + 2 - (1 - 2)^{-2})^2$ is:

1. 1
2. 2
3. 0
4. -1

Correct Option - 1

Que. 8 If $2P = 3Q = 5R$ and $P + Q + R = 6200$, then the difference between P and R is:

1. 3000
2. 2000
3. 1200
4. 1800

Correct Option - 4

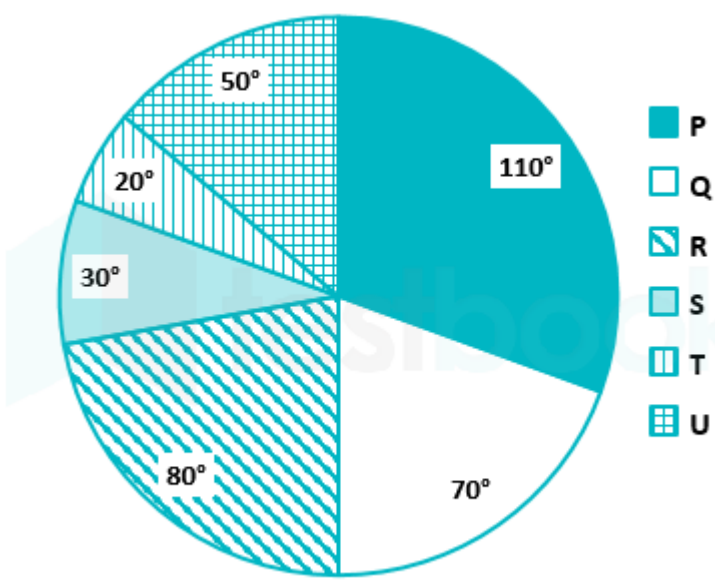
Que. 9 A hemispherical dome of a tomb having diameter of 3.5 m is to be painted. If the cost of painting is 20 paise per cm^2 , then what is the cost (in Rs.) of painting the dome from inside? Take $\pi = \frac{22}{7}$

1. Rs. 38,500
2. Rs. 35,000
3. Rs. 28,500
4. Rs. 25,000

Correct Option - 1

Que. 10 The pie chart given below shows the production of wheat by six states. The total production of wheat by all these six states is 3600. The production of wheat of a particular state is shown in terms of degree with respect to the total production of wheat by all these six states.

What is the difference between average production of wheat by P and Q and the average production of wheat by R and T?



- 1. 300
- 2. 500
- 3. 400
- 4. 200

Correct Option - 3

Que. 11 A man gets double the amount in 7 years at a certain rate percent. In how many years, he gets 8 times the amount at the same rate?

- 1. 56 years
- 2. 49 years
- 3. 25 years
- 4. 14 years

Correct Option - 2

Que. 12 The value of $\sqrt{4 - \sqrt{7} + \sqrt{19 + 2\sqrt{84}}}$ is _____.

- 1. $1 + \sqrt{3}$
- 2. $1 - \sqrt{3}$
- 3. $2 + \sqrt{3}$
- 4. $2 - \sqrt{3}$

Correct Option - 1

Que. 13 If $a + b : b + c : c + a = 2 : 3 : 5$ and $a + b + c = 20$, then the value of c is:

1. 10
2. 2
3. 12
4. 5

Correct Option - 3

Que. 14 If the ratio of radius and height of a cylinder is 3 : 2 and radius is 21 cm, then find the curved surface area (in cm^2). (use $\pi = 22/7$)

1. 1848
2. 1488
3. 1948
4. 1884

Correct Option - 1

Que. 15 The marked price of a computer is Rs. 10000. Selling price of computer is Rs. 7650. If two successive discounts of 15 percent and x percent are given, then what is the value of x?

1. 5 percent
2. 15 percent
3. 10 percent
4. 20 percent

Correct Option - 3

Que. 16 The marked price of a chair is 10 percent more than its cost price. If the chair is sold for Rs. 300 after a discount of Rs. 140, then what will be the loss percentage?

1. 20 percent
2. 12.5 percent
3. 25 percent
4. 17 percent

Correct Option - 3

Que. 17 The value of $(6 - 3) \div [(9 - 6) \div \{(6 - 4) \div (2 + \frac{8}{13})\}]$ is:

1. $\frac{5}{17}$
2. $\frac{1}{17}$
3. $\frac{13}{17}$
4. $\frac{26}{17}$

Correct Option - 3

Que. 18 Find the mean proportional of 0.75 and 3?

1. 1.25
2. 1.5
3. 1
4. 2

Correct Option - 2

Que. 19 A sum of money doubles itself at compound interest in 10 years. In how many years will it be four times at the same rate of interest?

1. 10
2. 20
3. 15
4. 5

Correct Option - 2

Que. 20 DIRECTIONS: What approximate value will come in place of the question mark (?) in the following question?

$$4374562 \times 64 = ? \times 7777$$

1. 360
2. 3600
3. 36000
4. 72000

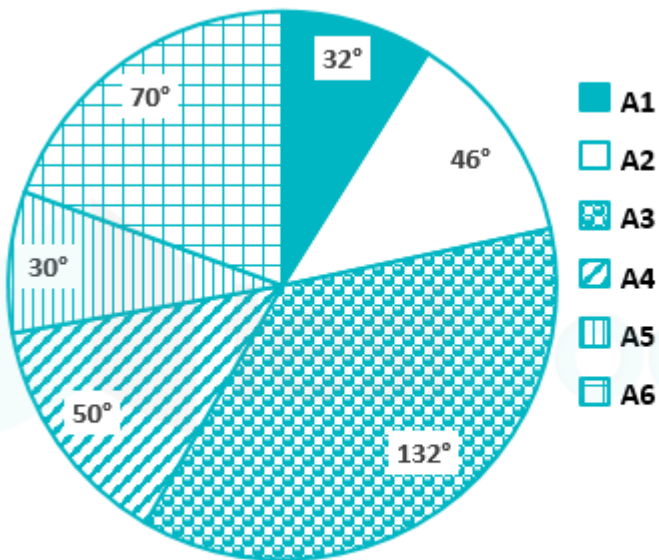
Correct Option - 3

Que. 21 The LCM of 32 and 40 equals to 9 less than the square of X. Find the positive value of X.

1. 14
2. 11
3. 12
4. 13

Correct Option - 4

Que. 22 The pie chart given below shows the price of 6 different articles. The total price of all these 6 articles is 5040. The price of a particular article is shown in terms of degree with respect to the total price of all these 6 articles.



- Which of the following statement is NOT correct?
- I. The total price of A1, A2, A4 and A6 is 2772.
 - II. The difference between the total price of A3 and A5 together and the total price of A4 and A6 together is 488.
1. Only II
 2. Both I and II
 3. Only I
 4. Neither I nor II

Correct Option - 1

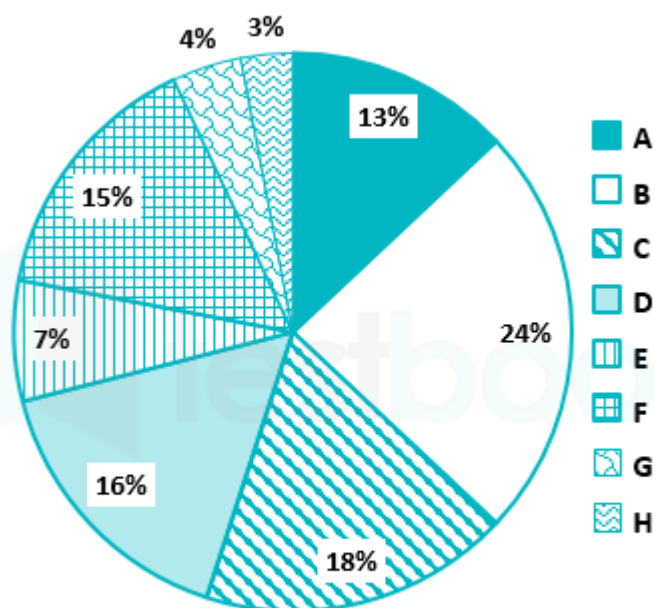
Que. 23 **DIRECTIONS:** What approximate value will come in place of the question mark (?) in the following question?

$$675.456 + 12.492 \times 55.671 = ?$$

1. 1971
2. 1071
3. 1171
4. 1371

Correct Option - 4

Que. 24 The pie chart given below shows the number of cars sold by 8 different companies. The total number of cars sold by all these 8 companies are 1000 . Number of cars sold by a particular company is shown as a percent of total number of cars sold by all these 8 companies.



What is the difference between the central angle formed by sectors A, B and C together and the central angle formed by sectors E, F and G together?

1. 72.8°
2. 88.4°
3. 104.4°
4. 102.6°

Correct Option - 3

Que. 25 Floor of a square room of side 10 m is to be completely covered with square tiles, each having length 50 cm. The smallest number of tiles needed is

1. 250
2. 324
3. 400
4. 520

Correct Option - 3