

Section : Quantitative Aptitude

Q.1 If $14331433 \times 1423 \times 1425$ is divided by 12, then what will be the remainder?

- Ans
- ☒ 1. 3
 - ☐ 2. 2
 - ☐ 3. 1
 - ☐ 4. 0

Question ID : 8161614764

Status : Not Answered

Chosen Option : --

Q.2 If $2\cos^2\theta - 5\cos\theta + 2 = 0, 0^\circ < \theta < 90^\circ$, then the value of $\frac{1}{(\operatorname{cosec}\theta + \cot\theta)}$ is:

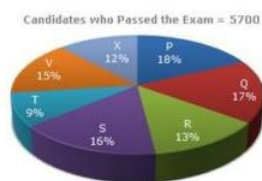
- Ans
- ☒ 1. $\sqrt{3}$
 - ☒ 2. $\frac{1}{3}$
 - ☒ 3. $2\sqrt{3}$
 - ☒ 4. $\frac{\sqrt{3}}{3}$

Question ID : 8161614785

Status : Answered

Chosen Option : 4

Q.3 The following pie charts represent the distribution of candidates who were enrolled for an entrance examination and the candidates (out of those enrolled) who passed the examination in different institutes (P, Q, R, S, T, V, X). Study the charts and answer the question that follows.



The number of candidates who passed from institutes P and Q together exceeds the number of candidates who enrolled from institutes T and R together by:

- Ans
- ☒ 1. 445
 - ☒ 2. 580
 - ☒ 3. 456
 - ☒ 4. 485

Question ID : 8161614788

Status : Not Answered

Chosen Option : --

Q.4 Eight years ago, the ratio of the ages of A and B was 9 : 10. The ratio of their ages 4 years from now will be 12 : 13. If the age of C is 4 years less than the present age of A, then what is the present age (in years) of C?

- Ans
- ☒ 1. 52
 - ☒ 2. 44
 - ☒ 3. 48
 - ☒ 4. 40

Question ID : 8161614773

Status : Answered

Chosen Option : 4

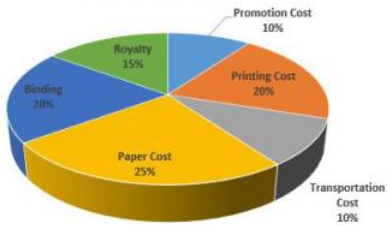
Q.5 Two persons A and B can complete a task in 10 days and 15 days, respectively. They work together and A leaves 5 days before the task is completed. After that, B alone completes the remaining task. The number of days taken to complete the whole task is:

- Ans** ☒ 1. 9
☒ 2. 10
☒ 3. 12
☒ 4. 8

Question ID : **8161614777**
Status : **Answered**
Chosen Option : **1**

Q.6 The given pie chart shows the percentage distribution of the expenditure incurred in publishing a book. Study the chart and answer the question that follows.

Various Expenditure (in percentage) Incurred in Publishing a Book



If 2500 copies are published and the printing cost for them amounts to ₹160,000, then what should be the selling price of a book such that the publisher can earn a profit of 25%?

- Ans** ☒ 1. ₹400
☒ 2. ₹370
☒ 3. ₹350
☒ 4. ₹420

Question ID : **8161614787**
Status : **Not Answered**
Chosen Option : **--**

Q.7 Two employees A and B are paid a total of ₹13,455 per week by their employer. If A is paid 125% of the sum paid to B, how much is B paid per week?

- Ans** ☒ 1. ₹5,980
☒ 2. ₹11,000
☒ 3. ₹10,000
☒ 4. ₹7,500

Question ID : **8161614770**
Status : **Answered**
Chosen Option : **1**

Q.8 A sports store offers a 10% discount on its goods. The store offers a further discount of 5% on the reduced price to those customers who pay by credit cards. If a customer wants to purchase a ball for ₹100 and pays through a credit card, the amount (in ₹) to be paid by the customer is:

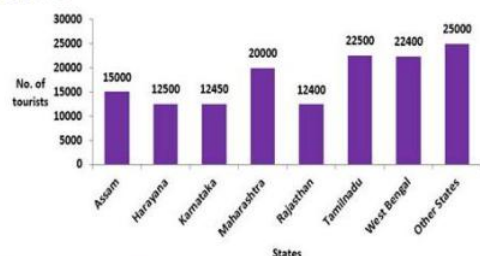
- Ans
- ☒ 1. 95
 - ☒ 2. 92.50
 - ☒ 3. 82.50
 - ☒ 4. 85.50

Question ID : 8161614768

Status : Answered

Chosen Option : 4

Q.9 The given bar graph shows the number of tourists to various states. Study the graph and answer the question that follows.



The number of tourists to which of the following states is less than 10% of the total number of tourists?

- Ans
- ☒ 1. Karnataka, Rajasthan and Haryana
 - ☒ 2. Karnataka and Rajasthan
 - ☒ 3. Only Rajasthan
 - ☒ 4. Karnataka, Rajasthan, Haryana and Assam

Question ID : 8161614786

Status : Not Answered

Chosen Option : --

Q.10 In $\triangle ABC$, AD is the bisector of $\angle A$ and intersects BC at D. If $BC = a$, $AC = b$ and $AB = c$, then BD is equal to:

- Ans
- ☒ 1. $\frac{a(c-b)}{c+b}$
 - ☒ 2. $\frac{ac}{b+c}$
 - ☒ 3. $\frac{a(c+b)}{c-b}$
 - ☒ 4. $\frac{ab}{b+c}$

Question ID : 8161614784

Status : Answered

Chosen Option : 2

Q.11 A person invested a sum of ₹25,000 partly at 10% per annum simple interest and the rest at 12% per annum simple interest. At the end of 2 years, the total interest received was ₹5,640. The difference (in ₹) between the two parts of the sum is:

- Ans**
- ☒ 1. 10,000
 - ☒ 2. 8,000
 - ☒ 3. 7,000
 - ☒ 4. 9,000

Question ID : 8161614775
Status : Not Answered
Chosen Option : --

Q.12 A 540 m long train, running at a uniform speed, crosses a platform in 55 seconds and crosses a man standing on the platform in 36 seconds. What is the length (in m) of the platform?

- Ans**
- ☒ 1. 285
 - ☒ 2. 325
 - ☒ 3. 450
 - ☒ 4. 400

Question ID : 8161614778
Status : Answered
Chosen Option : 1

Q.13 In $\triangle ABC$, $BD \perp AC$ at D. E is a point on BC such that $\angle BEA = x^\circ$. If $\angle EAC = 36^\circ$ and $\angle EBD = 40^\circ$, then the value of x is:

- Ans**
- ☒ 1. 72°
 - ☒ 2. 68°
 - ☒ 3. 86°
 - ☒ 4. 78°

Question ID : 8161614783
Status : Answered
Chosen Option : 3

Q.14 If $x^4 - 3x^2 - 1 = 0$, then the value of $\left(x^6 - 3x^2 + \frac{3}{x^2} - \frac{1}{x^6} + 1\right)$ is:

- Ans**
- ☒ 1. 26
 - ☒ 2. 54
 - ☒ 3. 51
 - ☒ 4. 28

Question ID : 8161614781
Status : Answered
Chosen Option : 4

Q.15 If the value of $(a + b - 3)^2 + (b + c - 2)^2 + (c + a - 5)^2 = 0$, then the value of $\sqrt{(b + c)^a + (c + a)^b}$ is:

- Ans
- ☒ 1. 1
 - ☒ 2. 2
 - ☒ 3. 0
 - ☒ 4. 3

Question ID : **8161614782**
Status : **Answered**
Chosen Option : **4**

Q.16 X and Y together can finish a task in 12 days. If Y alone can finish the same task in 15 days, then how many days will X alone take to finish the task?

- Ans
- ☒ 1. 30
 - ☒ 2. 45
 - ☒ 3. 60
 - ☒ 4. 50

Question ID : **8161614776**
Status : **Answered**
Chosen Option : **3**

Q.17 If the 6-digit number 479xyz is exactly divisible by 7, 11 and 13, then the product of the digits x, y and z will be:

- Ans
- ☒ 1. 794
 - ☒ 2. 252
 - ☒ 3. 479
 - ☒ 4. 1001

Question ID : **8161614765**
Status : **Not Answered**
Chosen Option : **--**

Q.18 When x is added to each of 10, 23, 15 and 33, the sums obtained in this order are in proportion. The value of (x + 5) is:

- Ans
- ☒ 1. 3
 - ☒ 2. 8
 - ☒ 3. 5
 - ☒ 4. 1

Question ID : **8161614774**
Status : **Not Answered**
Chosen Option : **--**

Q.19 If decreasing 70 by $x\%$ yields the same result as increasing 60 by $x\%$, then $x\%$ of 91 is:

- Ans
- ☒ 1. 6
 - ☒ 2. 7
 - ☐ 3. 8
 - ☐ 4. 5

Question ID : 8161614769

Status : Answered

Chosen Option : 2

Q.20 The average of n observations is 40. If two observations of 50 and 60 are added, then the average of all the observations will be 41. What is the value of n ?

- Ans
- ☐ 1. 32
 - ☐ 2. 42
 - ☒ 3. 28
 - ☐ 4. 40

Question ID : 8161614766

Status : Answered

Chosen Option : 3

Q.21 A car travels for 11 hours. For the first 100 km, the car travels with a certain speed, and then it increases its speed by 15 km/h to cover the remaining 280 km. The time (in hours) it takes to travel the 100 km part is:

- Ans
- ☒ 1. 4
 - ☐ 2. 11
 - ☐ 3. 7
 - ☐ 4. 10

Question ID : 8161614779

Status : Not Answered

Chosen Option : --

Q.22 A circle circumscribes a rectangle whose sides are in the ratio of 4 : 3. If the area of the rectangle is 192 cm^2 , then the perimeter (in cm) of the circle is:

- Ans
- ☐ 1. 15π
 - ☐ 2. 10π
 - ☐ 3. 12π
 - ☒ 4. 20π

Question ID : 8161614780

Status : Answered

Chosen Option : 4

Q.23 On selling a television at a 6% profit and a fridge at a 9% profit, a shopkeeper gains ₹5,100. However, if the shopkeeper sells the television at a 9% profit and the fridge at a 6% loss, he gains ₹1,800 on the whole transaction. The cost price (in ₹) of the fridge is:

- Ans
- ☒ 1. 40,000
 - ☒ 2. 30,000
 - ☒ 3. 37,500
 - ☒ 4. 35,000

Question ID : 8161614772
Status : Not Answered
Chosen Option : --

Q.24 A person sold an article at a loss of 8%. Had he sold it at a gain of 10.5%, he would have received ₹74 more. What is the cost price (in ₹) of the article?

- Ans
- ☒ 1. 500
 - ☒ 2. 300
 - ☒ 3. 100
 - ☒ 4. 400

Question ID : 8161614771
Status : Answered
Chosen Option : 4

Q.25 In a class of 88 students, the number of girls is 20% more than the number of boys. The average height of the boys is 164 cm, and the average height of the girls is 4 cm less than the average height of all the boys and girls in the class. What is the average height (in cm) of all the students in the class?

- Ans
- ☒ 1. 150
 - ☒ 2. 163.2
 - ☒ 3. 155.2
 - ☒ 4. 159.2

Question ID : 8161614767
Status : Not Answered
Chosen Option : --