

CAT 2025



Application No	[REDACTED]
Candidate Name	[REDACTED]
Test Center Name	[REDACTED]
Test Date	30/11/2025
Test Time	12:30 PM - 2:30 PM

Section : QA

Q.1 If $9x^2+2x-3 - 4(3x^2+2x-2) + 27 = 0$, then the product of all possible values of x is

- Ans
- 1. 30
 - 2. 20
 - 3. 5
 - 4. 15

Question Type : **MCQ**
 Question ID : **3328181029**
 Option 1 ID : **3328183102**
 Option 2 ID : **3328183105**
 Option 3 ID : **3328183104**
 Option 4 ID : **3328183103**
 Status : **Not Answered**
 Chosen Option : --

Q.2 The average number of copies of a book sold per day by a shopkeeper is 60 in the initial seven days and 63 in the initial eight days, after the book launch. On the ninth day, she sells 11 copies less than the eighth day, and the average number of copies sold per day from second day to ninth day becomes 66. The number of copies sold on the first day of the book launch is

Case Sensitivity: No

Answer Type: Equal

Possible Answer: NA

Given Answer **49**

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Question Type : SA

Question ID : 3328181729

Status : Answered

Q.3 The set of all real values of x for which $(x^2 - |x + 9| + x) > 0$, is

- Ans
- ✓ 1. $(-\infty, -3) \cup (3, \infty)$
 - ✗ 2. $(-\infty, -9) \cup (3, \infty)$
 - ✗ 3. $(-9, -3) \cup (3, \infty)$
 - ✗ 4. $(-\infty, -9) \cup (9, \infty)$

Question Type : MCQ

Question ID : 3328181208

Option 1 ID : 3328183733

Option 2 ID : 3328183734

Option 3 ID : 3328183735

Option 4 ID : 3328183732

Status : Answered

Chosen Option : 4

Q.4 An item with a cost price of Rs. 1650 is sold at a certain discount on a fixed marked price to earn a profit of 20% on the cost price. If the discount was doubled, the profit would have been Rs. 110. The rate of discount, in percentage, at which the profit percentage would be equal to the rate of discount, is nearest to

- Ans
- ✗ 1. 16
 - ✗ 2. 18
 - ✓ 3. 14
 - ✗ 4. 12

Question Type : MCQ

Question ID : 3328181257

Option 1 ID : 3328183909

Option 2 ID : 3328183906

Option 3 ID : 3328183908

Option 4 ID : 3328183907

Status : Not Attempted and Marked For Review

Chosen Option : --

Q.5 If m and n are integers such that $(m + 2n)(2m + n) = 27$, then the maximum possible value of $2m - 3n$ is

Case Sensitivity: No
 Answer Type: Equal
 Possible Answer: NA

Given Answer 13

Question Type : SA
 Question ID : 3328181731
 Status : Answered

Q.6 The sum of digits of the number $(625)^{65} \times (128)^{36}$, is

Case Sensitivity: No
 Answer Type: Equal
 Possible Answer: NA

Given Answer --

Question Type : SA
 Question ID : 3328181725
 Status : Not Answered

Q.7 The equations $3x^2 - 5x + p = 0$ and $2x^2 - 2x + q = 0$ have one common root. The sum of the other roots of these two equations is

- Ans
- ✓ 1. $\frac{8}{3} - p + \frac{3}{2}q$
 - ✗ 2. $\frac{2}{3} - p + \frac{3}{2}q$
 - ✗ 3. $\frac{8}{3} + p + \frac{1}{3}q$
 - ✗ 4. $\frac{2}{3} - 2p + \frac{2}{3}q$

Question Type : MCQ
 Question ID : 3328181223
 Option 1 ID : 3328183791
 Option 2 ID : 3328183788
 Option 3 ID : 3328183789
 Option 4 ID : 3328183790
 Status : Not Attempted and Marked For Review
 Chosen Option : --

Q.8 If $\log_{64} x^2 + \log_8 \sqrt{y} + 3 \log_{512} (\sqrt{y} z) = 4$, where x, y and z are positive real numbers, then the minimum possible value of $(x + y + z)$ is

- Ans
- ✓ 1. 48
 - ✗ 2. 36
 - ✗ 3. 24
 - ✗ 4. 96

Question Type : MCQ
Question ID : 3328181027
Option 1 ID : 3328183096
Option 2 ID : 3328183095
Option 3 ID : 3328183094
Option 4 ID : 3328183097
Status : Not Answered
Chosen Option : --

Q.9 Rita and Sneha can row a boat at 5 km/h and 6 km/h in still water, respectively. In a river flowing with a constant velocity, Sneha takes 48 minutes more to row 14 km upstream than to row the same distance downstream. If Rita starts from a certain location in the river, and returns downstream to the same location, taking a total of 100 minutes, then the total distance, in km, Rita will cover is

Case Sensitivity: No
Answer Type: Equal
Possible Answer: NA

Given Answer --
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Question Type : SA
Question ID : 3328181734
Status : Not Answered

Q.10 Suppose a, b, c are three distinct natural numbers, such that $3ac = 8(a + b)$. Then, the smallest possible value of $3a + 2b + c$ is

Case Sensitivity: No
Answer Type: Equal
Possible Answer: NA

Given Answer 28
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Question Type : SA
Question ID : 3328181702
Status : Answered

Q.11 Let $f(x) = \frac{x}{(2x-1)}$ and $g(x) = \frac{x}{(x-1)}$. Then, the domain of the function

$h(x) = f(g(x)) + g(f(x))$ is all real numbers except

Ans

✓ 1. $-1, \frac{1}{2},$ and 1

✗ 2. $\frac{1}{2}, 1,$ and $\frac{3}{2}$

✗ 3. $-\frac{1}{2}, \frac{1}{2},$ and 1

✗ 4. $\frac{1}{2},$ and 1

Question Type : MCQ

Question ID : 3328181054

Option 1 ID : 3328183208

Option 2 ID : 3328183209

Option 3 ID : 3328183207

Option 4 ID : 3328183206

Status : Not Answered

Chosen Option : --

Q.12 A loan of Rs 1000 is fully repaid by two installments of Rs 530 and Rs 594, paid at the end of first and second year, respectively. If the interest is compounded annually, then the rate of interest, in percentage, is

Ans ✗ 1. 10

✗ 2. 11

✗ 3. 9

✓ 4. 8

Question Type : MCQ

Question ID : 3328181280

Option 1 ID : 3328183992

Option 2 ID : 3328183993

Option 3 ID : 3328183990

Option 4 ID : 3328183991

Status : Not Answered

Chosen Option : --

Q.13 Two tangents drawn from a point P touch a circle with center O at points Q and R . Points A and B lie on PQ and PR , respectively, such that AB is also a tangent to the same circle. If $\angle AOB = 50^\circ$, then $\angle APB$, in degrees, equals

Case Sensitivity: No

Answer Type: Equal

Possible Answer: NA

Given Answer --

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Question Type : SA

Question ID : 3328181732

Status : Not Answered

Q.14 The number of divisors of $(2^6 \times 3^5 \times 5^3 \times 7^2)$, which are of the form $(3r + 1)$, where r is a non-negative integer, is

- Ans
- 1. 36
 - 2. 56
 - 3. 24
 - 4. 42

Question Type : MCQ
 Question ID : 3328181022
 Option 1 ID : 3328183077
 Option 2 ID : 3328183075
 Option 3 ID : 3328183076
 Option 4 ID : 3328183074
 Status : Not Answered
 Chosen Option : --

Q.15 Let ABCDEF be a regular hexagon and P and Q be the midpoints of AB and CD, respectively. Then, the ratio of the areas of trapezium PBCQ and hexagon ABCDEF is

- Ans
- 1. 6 : 19
 - 2. 5 : 24
 - 3. 6 : 25
 - 4. 7 : 24

Question Type : MCQ
 Question ID : 3328181059
 Option 1 ID : 3328183228
 Option 2 ID : 3328183226
 Option 3 ID : 3328183229
 Option 4 ID : 3328183227
 Status : Not Answered
 Chosen Option : --

Q.16 If a, b, c and d are integers such that their sum is 46, then the minimum possible value of $(a - b)^2 + (a - c)^2 + (a - d)^2$ is

Case Sensitivity: No
 Answer Type: Equal
 Possible Answer: NA

Given Answer 6

Question Type : SA
 Question ID : 3328181728
 Status : Answered

Q.17 The ratio of expenditures of Lakshmi and Meenakshi is 2 : 3, and the ratio of income of Lakshmi to expenditure of Meenakshi is 6 : 7. If excess of income over expenditure is saved by Lakshmi and Meenakshi, and the ratio of their savings is 4 : 9, then the ratio of their incomes is

- Ans
- 1. 3 : 5
 - 2. 5 : 6
 - 3. 2 : 1
 - 4. 7 : 8

Question Type : MCQ
 Question ID : 3328181188
 Option 1 ID : 3328183657
 Option 2 ID : 3328183658
 Option 3 ID : 3328183656
 Option 4 ID : 3328183659
 Status : Not Attempted and Marked For Review
 Chosen Option : --

Q.18 Let a_n be the n^{th} term of a decreasing infinite geometric progression. If $a_1 + a_2 + a_3 = 52$ and $a_1a_2 + a_2a_3 + a_3a_1 = 624$, then the sum of this geometric progression is

- Ans
- 1. 57
 - 2. 54
 - 3. 60
 - 4. 63

Question Type : MCQ
 Question ID : 3328181002
 Option 1 ID : 3328183001
 Option 2 ID : 3328182998
 Option 3 ID : 3328182999
 Option 4 ID : 3328183000
 Status : Not Answered
 Chosen Option : --

Q.19 A mixture of coffee and cocoa, 16% of which is coffee, costs Rs 240 per kg. Another mixture of coffee and cocoa, of which 36% is coffee, costs Rs 320 per kg. If a new mixture of coffee and cocoa costs Rs 376 per kg, then the quantity, in kg, of coffee in 10 kg of this new mixture is

- Ans
- 1. 5
 - 2. 4
 - 3. 2.5
 - 4. 6

Question Type : MCQ
 Question ID : 3328181212
 Option 1 ID : 3328183749
 Option 2 ID : 3328183750
 Option 3 ID : 3328183751
 Option 4 ID : 3328183748
 Status : Not Attempted and Marked For Review
 Chosen Option : --

Q.20 In a ΔABC , points D and E are on the sides BC and AC, respectively. BE and AD intersect at point T such that $AD : AT = 4 : 3$, and $BE : BT = 5 : 4$. Point F lies on AC such that DF is parallel to BE. Then, $BD : CD$ is

- Ans
- 1. 15 : 4
 - 2. 11 : 4
 - 3. 7 : 4
 - 4. 9 : 4

Question Type : MCQ
 Question ID : 3328181358
 Option 1 ID : 3328184244
 Option 2 ID : 3328184242
 Option 3 ID : 3328184243
 Option 4 ID : 3328184245
 Status : Not Answered
 Chosen Option : --

Q.21 Ankita is twice as efficient as Bipin, while Bipin is twice as efficient as Chandan. All three of them start together on a job, and Bipin leaves the job after 20 days. If the job got completed in 60 days, the number of days needed by Chandan to complete the job alone, is

Case Sensitivity: No

Answer Type: Equal

Possible Answer: NA

Given Answer **340**

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Question Type : SA
Question ID : 3328181733
Status : Answered

Q.22 A certain amount of money was divided among Pinu, Meena, Rinu and Seema. Pinu received 20% of the total amount and Meena received 40% of the remaining amount. If Seema received 20% less than Pinu, the ratio of the amounts received by Pinu and Rinu is

Ans 1. 2 : 1

2. 1 : 2

3. 5 : 8

4. 8 : 5

Question Type : MCQ
Question ID : 3328181050
Option 1 ID : 3328183191
Option 2 ID : 3328183190
Option 3 ID : 3328183192
Option 4 ID : 3328183193
Status : Answered
Chosen Option : 3