

Started on	Thursday, 16 October 2025, 11:54 AM
State	Finished
Completed on	Thursday, 16 October 2025, 12:09 PM
Time taken	15 mins 1 sec
Marks	7.00/15.00
Grade	46.67 out of 100.00

Question 1

Complete

Mark 1.00 out of 1.00

A can do a job in 6 days, B in 8 days, and C in 12 days. In how many days can they finish it together?

- ☐ a. 2 days
- ☒ b. 3 days
- ☐ c. 5 days
- ☐ d. 4 days

Question 2

Complete

Mark 0.00 out of 1.00

A code executes in $O(n \log n)$ time. If the input size increases from 1,000 to 8,000, the execution time increases approximately by what factor?

- ☐ a. 24
- ☐ b. 6
- ☐ c. 18
- ☒ d. 8

Question 3

Complete

Mark 1.00 out of 1.00

A gaming company offers a 20% discount followed by a 10% discount on an item of ₹1000. The effective discount is:

- ☐ a. 25%
- ☐ b. 27%
- ☐ c. 30%
- ☒ d. 28%

Question 4

Complete

Mark 1.00 out of 1.00

A man walks 2 km north, then 3 km east, then 6 km south. How far and in what direction is he from the starting point?

- ☐ a. 5 km SW
- ☐ b. 4 km SE
- ☒ c. 5 km SE
- ☐ d. 4 km SW

Question 5

Complete

Mark 1.00 out of 1.00

A sum becomes ₹9261 after 3 years at 10% compound interest. Find the principal.

- ☐ a. ₹7500
- ☐ b. ₹8000
- ☒ c. ₹7000
- ☐ d. ₹9000

Question 6

Complete

Mark 1.00 out of 1.00

A train moving at 90 km/h crosses a pole in 20 seconds. The length of the train is:

- ☒ a. 500 m
- ☐ b. 300 m
- ☐ c. 250 m
- ☐ d. 450 m

Question 7

Complete

Mark 1.00 out of 1.00

If 20% of A = 30% of B, then A : B =

- ☐ a. 4 : 5
- ☒ b. 3 : 2
- ☐ c. 5 : 4
- ☐ d. 2 : 3

Question 8

Complete

Mark 1.00 out of 1.00

If $a : b = 2 : 3$ and $b : c = 4 : 5$, then $a : b : c =$

- ☐ a. $6 : 9 : 10$
- ☒ b. $8 : 12 : 15$
- ☐ c. $2 : 4 : 5$
- ☐ d. $4 : 5 : 6$

Question 9

Not answered

Marked out of 1.00

If $x + 1/x = 3$, find the value of $x^3 + 1/x^3$.

- ☐ a. 9
- ☐ b. 18
- ☐ c. 6
- ☐ d. 24

Question 10

Not answered

Marked out of 1.00

In how many ways can the letters of the word LIQUID be arranged?

- ☐ a. 60
- ☐ b. 720
- ☐ c. 360
- ☐ d. 120

Question 11

Not answered

Marked out of 1.00

Ratio of ages of A and B is $3 : 5$. After 10 years, ratio becomes $5 : 7$. A's present age is:

- ☐ a. 25
- ☐ b. 20
- ☐ c. 30
- ☐ d. 15

Question 12

Not answered

Marked out of 1.00

The average of 10 numbers is 50 and one number is excluded; the average becomes 48. The excluded number is:

- ☐ a. 70
- ☐ b. 68
- ☐ c. 48
- ☐ d. 30

Question 13

Not answered

Marked out of 1.00

The difference between the simple and compound interest on ₹10,000 for 2 years at 10% per annum is:

- ☐ a. ₹10
- ☐ b. ₹120
- ☐ c. ₹100
- ☐ d. ₹20

Question 14

Not answered

Marked out of 1.00

The number of trailing zeros in $50!$ is:

- ☐ a. 10
- ☐ b. 14
- ☐ c. 12
- ☐ d. 15

Question 15

Not answered

Marked out of 1.00

Two pipes can fill a tank in 12 min and 16 min respectively. If both are opened together, how long will they take to fill $\frac{3}{4}$ of the tank?

- ☐ a. 6 min
- ☐ b. 7.2 min
- ☐ c. 5.6 min
- ☐ d. 8 min