

Started on	Friday, 13 June 2025, 11:28 AM
State	Finished
Completed on	Friday, 13 June 2025, 11:38 AM
Time taken	10 mins
Marks	2.00/15.00
Grade	13.33 out of 100.00

Question 1

Complete

Mark 0.00 out of 1.00

A and B together can complete a task in 10 days. A alone can complete it in 15 days. In how many days can B complete the task working alone?

- ☐ a. 30
- ☒ b. 20
- ☐ c. 40
- ☐ d. 25

$$\frac{1}{10} = \frac{1}{15} + \frac{1}{x}$$

Question 2

Complete

Mark 0.00 out of 1.00

A box contains 5 red, 4 green, and 3 blue balls. Two balls are drawn at random. What is the probability that both are of the same color?

- ☐ a. 14/55
- ☒ b. 17/66
- ☐ c. 19/66
- ☐ d. 1/11

$$\frac{{}^5C_2 + {}^4C_2 + {}^3C_2}{{}^{12}C_2}$$

Question 3

Complete

Mark 0.00 out of 1.00

A salary is increased by 20% and then decreased by 20%. What is the net change in salary?

- ☐ a. 2% decrease
- ☒ b. 4% increase
- ☐ c. 4% decrease
- ☐ d. No change

Question 4

Complete

Mark 0.00 out of 1.00

A sum of ₹12,000 is invested at 10% per annum. What will be the difference between compound interest and simple interest after 2 years?

- ☐ a. ₹144
☒ b. ₹240
☐ c. ₹264
☐ d. ₹120

$$SI \rightarrow \frac{PTR}{100}$$

$$CI \rightarrow P \left(1 + \frac{R}{100}\right)^T - P$$

Question 5

Complete

Mark 0.00 out of 1.00

A train covers a distance of 300 km at an average speed of 60 km/h. If the speed had been 75 km/h, how much time would have been saved?

- ☐ a. 1 hour
☒ b. 30 minutes
☐ c. 45 minutes
☐ d. 40 minutes

$$\text{speed} = \frac{\text{dist}}{\text{time}}$$

Question 6

Complete

Mark 0.00 out of 1.00

At what time between 2 and 3 o'clock will the hands of the clock be at 180° to each other?

- ☐ a. 2:16:21
☒ b. 2:27:16
☐ c. 2:18:00
☐ d. 2:10:55
 e. 2:22

$$\text{angle between hrs and mins hands} = 30^\circ \times h - (11/2)^\circ \times \text{mins}$$

Question 7

Complete

Mark 0.00 out of 1.00

Find the next number in the series: 2, 9, 28, 65, 126, ?

- ☐ a. 219
☒ b. 195
☒ c. 217
☐ d. 221

$$x^3 + 1$$

Question 8

Complete

Mark 0.00 out of 1.00

In a certain code, READ is written as UGDG, and BOOK as ESRN. How is PENS written?

- ☐ a. SHQV
- ☒ b. SJQV
- ☐ c. SHQU
- ☐ d. SHPV

} x

Question 9

Complete

Mark 0.00 out of 1.00

In a class of 60 students, the average score is 70. If the top 10 students have an average of 90, what is the average of the remaining students?

- ☐ a. 68.33
- ☒ b. 65
- ☐ c. 66.67
- ☐ d. 70

Question 10

Complete

Mark 1.00 out of 1.00

In how many ways can the letters of the word PROBLEM be arranged such that the vowels are always together?

- ☐ a. 4320
- ☒ b. 1440
- ☐ c. 720
- ☐ d. 2160

6! x 2!

Question 11

Complete

Mark 0.00 out of 1.00

Only one of the three friends A, B, and C is telling the truth. What is the color of each person's shirt?

- ☐ a. A-Blue, B-Red, C-Green
- ☒ b. A-Red, B-Green, C-Blue
- ☐ c. A-Green, B-Red, C-Blue
- ☐ d. A-Red, B-Blue, C-Green

Question 12

Complete

Mark 0.00 out of 1.00

The radius of a cylinder is increased by 10% and height is decreased by 10%. What is the percentage change in volume?

- ☐ a. Decrease by 0.9%
- ☒ b. No change
- ☐ c. Decrease by 1%
- ☐ d. Increase by 0.9%

$$\pi r^2 h$$

Question 13

Complete

Mark 1.00 out of 1.00

The ratio of A's and B's ages is 3:4. After 5 years, the ratio becomes 4:5. What is A's current age?

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

Question 14

Complete

Mark 0.00 out of 1.00

What day of the week will 1st January 2040 fall on?

- ☐ a. Wednesday
- ☒ b. Monday
- ☐ c. Tuesday
- ☐ d. Sunday

Question 15

Complete

Mark 0.00 out of 1.00

A company has 5 departments. The table shows the number of employees and average salary in each department:

Department Employees Avg Salary (₹)

HR	50	30,000
IT	100	45,000
Finance	75	50,000
Sales	125	40,000
Admin	30	35,000

What is the total monthly salary expense of the company?

- ☒ a. ₹10,250,000
- ☐ b. ₹9,750,000
- ☐ c. ₹10,000,000
- ☐ d. ₹9,525,000

} X

