Prepp

Practice, Learn and Achieve
Your Goal with Prepp

DRDO CEPTAM Exam

Previous Paper

Simplifying
Government Exams

Q.1 An article is sold for ₹2070 at a 15% profit. If the article is sold for ₹1890, then what will be the gain/loss percent?

Ans ✗ 1. 10% loss

✗ 2. 5% loss

✗ 3. 10% gain

✔ 4. 5% gain

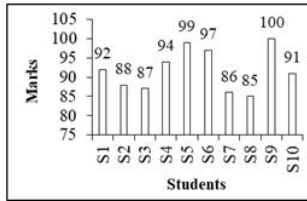**Q.2** What is the smallest number which when increased by 5 is divisible by 12, 18 and 30?

Ans ✔ 1. 175

✗ 2. 115

✗ 3. 235

✗ 4. 195

Q.3

What is the value of $\dfrac{\frac{2}{3} \, of \, \frac{9}{4} + \frac{1}{2} \div \frac{5}{4}}{1 - \frac{1}{3} + \frac{1}{4} \times \left(1 + \frac{1}{3}\right)}$?

Ans ✗ 1. $\dfrac{7}{10}$

✗ 2. $\dfrac{9}{19}$

✔ 3. $\dfrac{19}{10}$

✗ 4. $\dfrac{7}{11}$

Q.4

The Bar graph given below presents the marks (out of 100) obtained by 10 students in a subject.

What is the average of the marks obtained by all the students?

Ans ✔ 1. 91.9

✘ 2. 90.9

✘ 3. 82.9

✘ 4. 89.9

Q.5 A is 20% more than B, which is 25% less than C. Which of the following is true about A and C?

Ans ✔ 1. A = 0.9C

✘ 2. A = 1.1C

✘ 3. A = 0.95C

✘ 4. A = C

Q.6 A mixture has milk and water in the ratio (by volume) of 8 : 3. If 3 litres of water is added to it, then new ratio of milk and water becomes 2 : 1. What are the quantities of milk and water respectively in the mixture initially?

Ans ✔ 1. 24 litres and 9 litres

✘ 2. 32 litres and 12 litres

✘ 3. 40 litres and 15 litres

✘ 4. 16 litres and 6 litres

Q.7 What is the average of first seven prime numbers (correct to two decimal places)?

Ans ✘ 1. 7.14

✘ 2. 8.76

✘ 3. 7.64

✔ 4. 8.29

Q.8 An article is sold for ₹810 at a loss of 10%. What should be the selling price if the loss is 20%?

Ans ✘ 1. ₹750

✘ 2. ₹630

✗ 3. ₹600

✔ 4. ₹720

Q.9 The side of a cube is 15 cm. What is the base area of a cuboid whose volume is 175 cm³ less than that of the cube and whose height is 32 cm?

Ans

✗ 1. 200 cm^2

✔ 2. 100 cm^2

✗ 3. 160 cm^2

✗ 4. 325 cm^2

Q.10 An article is sold for ₹7650 after two successive discounts of 15% and 25%. What is the marked price of the article?

Ans

✗ 1. ₹15000

✗ 2. ₹10000

✗ 3. ₹14000

✔ 4. ₹12000

Q.11 The total surface area of a hollow cuboid is 340 cm². If the length and the breadth of the cuboid are 10 cm and 8 cm respectively, then what is the length of the longest stick that can be fitted inside the cuboid?

Ans

✗ 1. 10 cm

✗ 2. $4\sqrt{41}$ cm

✔ 3. $3\sqrt{21}$ cm

✗ 4. 21 cm

Q.12 A sum of money becomes 3 times in 10 years at the rate of compound interest (compounded annually). In how many years will it become 81 times?

Ans

✔ 1. 40 years

✗ 2. 50 years

✗ 3. 35 years

✗ 4. 30 years

Q.13 The ratio of monthly incomes of Ram and Rahim is 4 : 3 and the ratio of their monthly expenditures is 3 : 2. If each saves ₹5000 per month, then what are

Ans
- ✗ 1. ₹12000 and ₹9000
- ✗ 2. ₹10000 and ₹7500
- ✗ 3. ₹16000 and ₹12000
- ✔ 4. ₹20000 and ₹15000

Q.14 A boat can travel 60 km in 3 hours while going downstream, It can travel 90 km in 5 hours while going upstream. What is the ratio of the speed of boat in still water to the speed of the stream?

Ans
- ✗ 1. $6 : 1$
- ✗ 2. $4 : 1$
- ✔ 3. $19 : 1$
- ✗ 4. $10 : 9$

Q.15 The simple interest for 9 years on a principal is $\frac{3}{5}$ of the principal. What is the rate of interest per annum?

Ans
- ✗ 1. 6%
- ✗ 2. 4%
- ✔ 3. $6\frac{2}{3}\%$
- ✗ 4. $5\frac{2}{3}\%$

Q.16 A can do a piece of work alone in 8 days. B can do the same work alone in 21 days. If they work together for 3 days, then how much work is completed?

Ans
- ✗ 1. $\frac{29}{67}$
- ✗ 2. $\frac{31}{65}$
- ✗ 3. $\frac{27}{64}$
- ✔ 4. $\frac{29}{56}$

Q.17 What is the value of $\frac{3}{7} \div \frac{9}{21} + 2 - \frac{4}{3} + \frac{1}{2}$ of $\frac{12}{5} \times \frac{25}{18} \div \frac{5}{9}$?

Ans
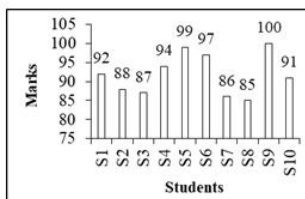- ✗ 1. 2
- ✗ 2. $\frac{17}{3}$
- ✔ 3. $\frac{14}{3}$

✗ 4. 4

Q.18 What is the average of first six natural numbers, which are multiples of 3?

Ans ✔ 1. 10.5

✗ 2. 11

✗ 3. 12

✗ 4. 9.5

Q.19 A train crosses a 600 metres long platform in 50 seconds. It crosses another 900 metres long platform in 60 seconds. What are the length and the speed of the train?

Ans ✗ 1. 900 metres, 96 km/h

✔ 2. 900 metres, 108 km/h

✗ 3. 600 metres, 108 km/h

✗ 4. 700 metres, 96 km/h

Q.20 The Bar graph given below presents the marks (out of 100) obtained by 10 students in a subject.

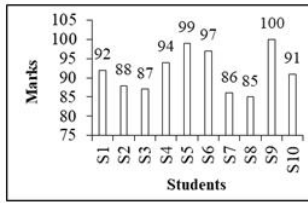The average of marks obtained by S3 and S5 is what percent less than the marks obtained by S9?

Ans ✔ 1. 7%

✗ 2. 9%

✗ 3. 8%

✗ 4. 10%

Q.21 The height of a right circular cone is 5 cm and its base radius is 12 cm. What is the curved surface area of the cone?

Ans ✗ 1. $132\,\pi\,cm^2$

✗ 2. $143\,\pi\,cm^2$

✔ 3. $156\,\pi\,cm^2$

✗ 4. $168\,\pi\,cm^2$

Q.22 The Bar graph given below presents the marks (out of 100) obtained by 10 students in a subject.

The marks obtained by S5 is how much percent more than the average marks of the students (correct to two decimal)?

Ans

✓ 1. 7.73%

✗ 2. 22.73%

✗ 3. 12.73%

✗ 4. 17.73%

Q.23 Pipe P can fill a tank alone in 7 hours. Pipe Q can fill the same tank alone in 13 hours. In how much time can they together fill the tank?

Ans

✗ 1. 3 hours 18 minutes

✗ 2. 3 hours 45 minutes

✗ 3. 4 hours 12 minutes

✓ 4. 4 hours 33 minutes

Q.24 For three numbers, the ratio of the first and the second number is 2 : 3 and that of the second and the third number is 4 : 5. If the sum of the three numbers is 140, then what is the second number?

Ans

✗ 1. 60

✓ 2. 48

✗ 3. 96

✗ 4. 32

Q.25 What is the median of 6, 9, 13, 8, 3, 2, 5, 7 and 11?

Ans

✓ 1. 7

✗ 2. 6.5

✗ 3. 8

✗ 4. 6

Prepp

Latest Sarkari jobs, Govt Exam alerts, Results and Vacancies

▸ Latest News and Notification

▸ Exam Paper Analysis

▸ Topic-wise weightage

▸ Previous Year Papers with Answer Key

▸ Preparation Strategy & Subject-wise Books

To know more **Click Here**