



AJEENKYA

D Y PATIL UNIVERSITY

End Term Examination (December 2019)

School: School of Engineering

Program: **B.Sc (A&vfx/gaming)**

Course: **Reasoning and thinking II**

Course Code: **GLO117**

Semester: III

Max Marks: 30

Duration (mins): **60 Minutes**

Instructions: Please read all questions carefully.

Each question carries 2 marks.

Please write correct option in the answersheet provided.

Please fill all the details in the answersheet carefully.

1. The captain of a cricket team of 11 members is 26 years old and the wicket keeper is 3 years older.

If the ages of these two are excluded, the average age of the remaining players is one year less than the average age of the whole team. Find out the average age of the team.

A. 23 years B. 20 years. C. 24 years D. 21 years

2. Two employees X and Y are paid a total of Rs. 550 per week by their employer. If X is paid 120 percent of the sum paid to Y, how much is Y paid per week?

A. Rs. 150 B. Rs. 300. C. Rs. 250 D. Rs. 200

3. In a shop, the profit is 320% of the cost. If the cost increases by 25% but the selling price remains constant, find out approximately what percentage of the selling price is the profit?

A. 250% B. 100%. C. 70% D. 30%

4. Six bells start ringing together and ring at intervals of 4, 8, 10, 12, 15 and 20 seconds respectively. how many times will they ring together in 60 minutes ?

A. 31 B. 15. C. 16 D. 30

5. A car owner buys diesel at Rs.7.50, Rs. 8 and Rs. 8.50 per liter for three successive years. What approximately is the average cost per liter of diesel if he spends Rs. 4000 each year?

A. Rs. 8 B. Rs. 7.98. C. Rs. 6.2. D. Rs. 8.1

6. A man's age is 125% of what it was 10 years ago, but $83\frac{1}{3}\%$ of what it will be after ten 10 years.

What is his present age?

A. 70. B. 60. C. 50 D. 40

7. Two pipes A and B can fill a cistern in $37\frac{1}{2}$ minutes and 45 minutes respectively. Both pipes are opened. The cistern will be filled in just half an hour, if pipe B is turned off after:

A. 5 min B. 9 min. C. 10 min D. 15 min

8. A bag contains 4 black, 5 yellow and 6 green balls. Three balls are drawn at random from the bag. What is the probability that all of them are yellow?

A. $\frac{2}{91}$. B. $\frac{1}{81}$. C. $\frac{1}{8}$ D. $\frac{2}{81}$

9. Excluding stoppages, the speed of a bus is 54 kph and including stoppages, it is 45 kph. For how many minutes does the bus stop per hour?

A. 12 B. 11. C. 10 D. 9

10. What is the greatest number of four digits which is divisible by 15, 25, 40 and 75 ?

A. 9800 B. 9600. C. 9400 D. 9200

11. Three numbers are in the ratio of 2 : 3 : 4 and their L.C.M. is 240. Their H.C.F. is:

A. 40 B. 30. C. 20 D. 10

12. A sum of money is to be distributed among A, B, C, D in the proportion of 5 : 2 : 4 : 3. If C gets Rs. 1000 more than D, what is B's share?

A. Rs. 500 B. Rs. 1500. C. Rs. 2000 D. None of these

13. P is able to do a piece of work in 15 days and Q can do the same work in 20 days. If they can work together for 4 days, what is the fraction of work left?

A. $\frac{8}{15}$ B. $\frac{7}{15}$. C. $\frac{11}{15}$ D. $\frac{2}{11}$

14. A man can row 24 kph in still water. It takes him thrice as long to row up as to row down the river. Find the rate of the stream?

A.) 4 kph B.) 12 kph. C.) 6 kph D.) 1 kph

15. Ayesha's age is $\frac{1}{6}$ th of her father's age. Ayesha's father's age will be twice the age of Shankar's age after 10 years. If Shankar's eight birthdays was celebrated two years before, then what is Ayesha's present age.

A. 10 years B. 12 years. C. 8 years D. 5 years