



AJEENKYA

D Y PATIL UNIVERSITY

End Term Examinations (April 2019)

School: School of Engineering

Program: BCA (MACT/CTIS/DS)

Course: Reasoning & Thinking - I

Course Code: GLO116

Semester: II

Max Marks: 50

Duration (mins): 90 mins

Attempt the following (Each question 2M)

(25x2=50)

1. In a class, there are 15 boys and 10 girls. Three students are selected at random. The probability that 1 girl and 2 boys are selected, is:
A. $\frac{21}{46}$ B. $\frac{25}{117}$ C. $\frac{1}{50}$ D. $\frac{3}{25}$
2. A bag contains 4 white, 5 red and 6 blue balls. Three balls are drawn at random from the bag. The probability that all of them are red, is:
A. $\frac{1}{22}$ B. $\frac{3}{22}$ C. $\frac{2}{91}$ D. $\frac{2}{77}$
3. The angle between the minute hand and the hour hand of a clock when the time is 4.20, is:
A. 0° B. 10° C. 5° D. 20°
4. At what time between 7 and 8 o'clock will the hands of a clock be in the same straight line but, not together?
A. 5 min. past 7 B. $5\frac{2}{11}$ min. past 7 C. $5\frac{3}{11}$ min. past 7 D. $5\frac{5}{11}$ min. past 7
5. It was Sunday on Jan 1, 2006. What was the day of the week Jan 1, 2010?
A. Sunday B. Saturday C. Friday D. Wednesday
6. Today is Monday. After 61 days, it will be:
A. Wednesday B. Saturday C. Tuesday D. Thursday
7. The last day of a century cannot be
A. Monday B. Wednesday C. Tuesday D. Friday
8. What will be the day of the week 15th August, 2010?
A. Sunday B. Monday C. Tuesday D. Friday

9. In how many different ways can the letters of the word 'LEADING' be arranged in such a way that the vowels always come together?
 A. 360 B. 480 C. 720 D. 5040
10. Out of 7 consonants and 4 vowels, how many words of 3 consonants and 2 vowels can be formed?
 A. 210 B. 1050 C. 25200 D. 21400
11. In a group of 6 boys and 4 girls, four children are to be selected. In how many different ways can they be selected such that at least one boy should be there?
 A. 159 B. 194 C. 205 D. 209
12. A, B and C can complete a piece of work in 24, 6 and 12 days respectively. Working together, they will complete the same work in:
 A. $1/24$ day B. $7/24$ day C. $3\frac{3}{7}$ days D. 4 days
13. Sakshi can do a piece of work in 20 days. Tanya is 25% more efficient than Sakshi. The number of days taken by Tanya to do the same piece of work is:
 A. 15 B. 16 C. 18 D. 25
14. A batsman scored 110 runs which included 3 boundaries and 8 sixes. What percent of his total score did he make by running between the wickets?
 A. 45% B. $45\frac{5}{11}$ % C. $54\frac{6}{11}$ % D. 55%
15. A fruit seller had some apples. He sells 40% apples and still has 420 apples. Originally, he had:
 A. 588 apples B. 600 apples C. 672 apples D. 700 apples
16. If $A = x\%$ of y and $B = y\%$ of x , then which of the following is true?
 A. A is smaller than B. B. A is greater than B
 C. Relationship between A and B cannot be determined.
 D. If x is smaller than y , then A is greater than B.
17. A person crosses a 600 m long street in 5 minutes. What is his speed in km per hour?
 A. 3.6 B. 7.2 C. 8.4 D. 10
18. What is synonym of?
 VENT
 A. Opening B. Stodge C. End D. Past tense of go
19. What is antonym of?
 EXPAND
 A. Convert B. Condense C. Congest D. Conclude
- 20-21. Direction to solve Question no 20 to 21.

The following questions are based on the information given below:

All the faces of cubes are painted with blue color.
 The cubes is cut into 64 equal small cubes.

20. How many small cubes have only one face colored?

- A) 4 B) 8 C) 16 D) 24

21. How many small cubes have no faces colored?

- A) 24 B) 8 C) 16 D) 0

22-25. Direction to solve Question no 22 to 25.

Five girls are sitting on a bench to be photographed. Seema is to the left of Rani and to the right of Bindu. Mary is to the right of Rani. Reeta is between Rani and Mary.

22. Who is second from the left in photograph?

- A. Reeta B. Mary C. Bindu D. Seema

23. Who is sitting immediate right to Reeta?

- A. Bindu B. Rani C. Mary D. Seema

24. Who is in the middle of the photograph?

- A. Bindu B. Rani C. Reeta D. Seema

25. Who is second from the right?

- A. Mary B. Rani C. Reeta D. Bindu

*******ALL THE BEST*******