



## Practice Paper-1

### SECTION-A

➤ Answer the following questions as required. (Que. 1 to 24) (1 mark each) [24]

● State whether the following statements are true or false : (Que. No.1 to 6) (1 Mark Each)

- LCM (10, 20, 30) = 6000
- Power of polynomial  $(x^5 - 12)(x^3 - 5)$  is 5.
- The value of  $\sin A$  and  $\cos A$  can never exceed 1.
- The product of  $\cot$  and  $A$  is  $\cot A$ .
- If (2, 3) is a solution of the linear equation  $5x - 3y = K$  then  $K = 1$ .
- The sum of the AP... 1, 2, 3..... 10 is 55.

● Choose the right option so that the statement become true. (Que. No. 7 to 12) (1 Mark Each).

- HCF (132, 187) =  $5x + 1$ , then  $x =$  \_\_\_\_\_.  
(A) 11 (B) 2 (C) 15 (D)  $\frac{1}{2}$
- $ax + 2y = 7$  and  $2x + 3y = 8$  have unique solutions such that  $a \neq$  \_\_\_\_\_.  
(A)  $\frac{3}{4}$  (B)  $\frac{4}{3}$  (C)  $-\frac{4}{3}$  (D)  $-\frac{3}{4}$
- The distance between points A (0, 6) and B (0, -2) is \_\_\_\_\_.  
(A) 6 (B) 8 (C) 4 (D) 2
- If both the roots of  $4x^2 - x(a + 1) - 1 = 0$  are opposite numbers, then  $a =$  \_\_\_\_\_.  
(A) 0 (B) 1 (C) -1 (D) 2
- If  $P(A) : P(\bar{A}) = 2 : 3$  then  $P(\bar{A}) =$  \_\_\_\_\_.  
(A)  $\frac{5}{3}$  (B)  $\frac{5}{2}$  (C)  $\frac{2}{5}$  (D)  $\frac{3}{5}$
- The zeroes of the polynomial  $P(x) = \sqrt{5}x - 5$  is \_\_\_\_\_.  
(A) 5 (B)  $\frac{1}{\sqrt{5}}$  (C)  $\sqrt{5}$  (D) -5

## ASSIGNMENT PAPER

● Choose the most appropriate answer from the given alternatives (Que. No. 13 to 18) (1 Mark each)

- $Z - M =$  \_\_\_\_\_  $(M - \bar{x})$ . (2, 3, 4)
- Probability of getting a divisible numbers if a die is thrown once \_\_\_\_\_.  $(\frac{1}{2}, \frac{1}{3}, \frac{2}{3})$
- If the angle between two radii of a circle is  $140^\circ$  then the angle between two tangents drawn at the end points of the two radii is \_\_\_\_\_.  $(70^\circ, 40^\circ, 50^\circ)$
- If the radius of a circle is 8 cm then the distance between two parallel tangents drawn to the circle is \_\_\_\_\_ cm. (4, 8, 16)
- The probability that you get 100 marks out of 100 in a maths exam is \_\_\_\_\_.  $(1, \frac{1}{100}, \frac{1}{101})$
- Two digit number divisible by 7 is \_\_\_\_\_. (12, 13, 14)

● Answer in one sentence, word or static (Que.19 to 24) (1 mark each)

- If the perimeter of a circle of radius 2.8 m is 17.2 m, find its area.
- If an angle of measure  $60^\circ$  is subtended from the centre of a sector of circle area  $616 \text{ cm}^2$ ? Find the radius of the circle.
- What shape is the combination of gilli in the game of gilli-danda?
- If the radius of a sphere is doubled what is the ratio of the volume of the new sphere to that of the original sphere?
- If  $Z = 24$  and  $\bar{X} = 18$ , then find in.
- If the numbers of wickets taken by a bowler in a one-day cricket match series is 4, 5, 6, 3, 4, 0, 3, 2, 3, 5 then what is the polynomial of information?