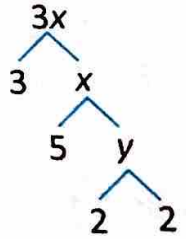
Practice Paper-4

SECTION-A

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

● **Choose the right option So that the statement become true (Que. No. 1 to 6)**

1. $x + y =$ _____ for the given element tree



(A) 4

(B) 20

(C) 24

(D) 80

ASSIGNMENT PAPER

2. If solution of equation $a - b = 2$ and $a + b = 4$ a
$a = x$ and $b = y$ then value of x and y is ?

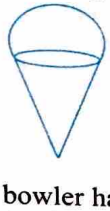
(A) $x = 3, y = 1$ (B) $x = 1, y = 3$

(C) $x = -3, y = 1$ (D) $x = 3, y = -1$

3. Which of the following is quadratic polynomial in which –9 and 9 are zeroes of a quadratic polynomial?
(A) $x^2 - 9$ (B) $x^2 - 64$
(C) $x^2 - 81$ (D) $x - 81$

4. The line joining A(3, 3) and B(3, –3) intersects in _____
(A) x-axis (3, 0) (B) x-axis (0, 3)
(C) x-axis (–3, 0) (D) x-axis (0, –3)

5. The TSA of toy is as shown in figure is _____.

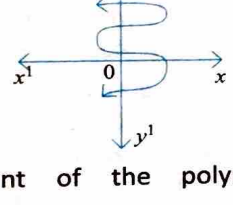


(A) $\pi r\ (2r + l)$
(B) $\pi r^2\ (2r + l)$
(C) $\pi r\ (r + 2\ l)$
(D) $\pi rl + \pi r$

6. If the number of wickets a bowler has taken in series of oneday cricket match is 2, 6, 4, 5, 0, 2, 1, 3, 2, 3. then the mode of information is _____
(A) 3 (B) 2
(C) 1 (D) 0

● **Choose the correct answers from the answer given in brackets and write the following statement as true : (Que. No. 7 to 12)**

7. Number of zeroes of $x = p(y)$ for the following graph is _____ . (0, 2, 4)



8. The exponent of the polynomial $(x + 1)(x^2 - x - x^4 + 3)$ is _____ . (3, 4, 5)

9. An apple at radius 3 cm costs ₹ 8 while an apple of radius 6 cm costs is ₹ _____ (48, 64, 36)

10. Length of minor arc with angle θ =_____.
$\left(\frac{\pi r\theta}{180}, \frac{\pi r^2\theta}{360}, \frac{\theta}{360}\right)$

11. Mid value of class interval 30 - 40 _____.
(30, 35, 40)

12. The probability that Mukesh win the first prize of a lottery is 0.07. If a total of 6000 tickets are sold, Mukesh will have _____ bought the tickets.
(42, 420, 600)

● **State whether the following statements are true or false : (Que. No. 13 to 16)**

13. $(\sqrt{2} - \sqrt{3})(\sqrt{3} + \sqrt{2})$ is an irrational numbers.

14. All squares are similar.

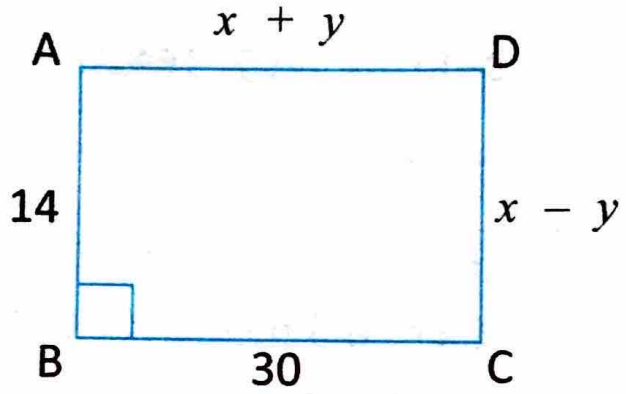
15. Maximum value of $sec\theta$ is 1.

16. A circle can have two parallel tangents at the most.

● **Answer the following questions in one sentence, word or numbers : (Que. No. 17 to 20)**

17. Find the value of m is both the roots of quadratic equation $6x^2 - 13x + m = 0$ are reciprocal

18. In the fig. ABCD is rectangle so find x and y.



19. The common difference of AP is – 6 then find $a_{16} - a_{12}$.

20. If perpendicular drawn from P(–3, 2) to the Y-axis has a perpendicular M, then find the coordinates of the point M.

● **Match following : (Que. No. 21 to 24)**

(A)	(B)
21. *cos* 0°	(a) 0
22. sec 90°	(b) 1
	(c) undefined

(A)	(B)
23. $\sqrt{6}\,x^2 - 5x + 6 = 0$	(a) real, equal root
24. $9x^2 - 6x + 1 = 0$	(b) no real root
	(c) real, distinct