

Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink in the answer -book. Cutting or filling two or more circles will result in zero mark in that question.

11. Conjugate of surd $a + \sqrt{b}$ is ----:

- A $-a + \sqrt{b}$ B $a - \sqrt{b}$
 C $\sqrt{a} - \sqrt{b}$ D $\sqrt{a} + \sqrt{b}$

12. In a triangle, there can be right angle ----:

- A 3 B 1
 C 0 D 2

13. Equality of ---- ratios is called proportion:

- A Five B Four
 C Three D Two

14. If two opposite sides of a quadrilateral are congruent and parallel, it is ----:

- A Parallelogram B Triangle
 C Rhombus D Trapezium

15. Every real number is a ----:

- A Positive integer B Rational number
 C Negative integer D Complex number

16. If two intersecting lines form equal adjacent angles, the lines are:

- A Collinear B Proportional
 C Parallel D Perpendicular

17. A quadrilateral having each angle equal to 90° is called ----:

- A Parallelogram B Rectangle
 C Trapezium D Rhombus

18. The logarithm of any number to itself as base is ----:

- A 1 B 0
 C -1 D 10

19. Find 'm' so that $x^2 + 4x + m$ is a complete square:

- A 8 B -8
 C 4 D 16

20. $\begin{bmatrix} \sqrt{2} & 0 \\ 0 & \sqrt{2} \end{bmatrix}$ is called ---- matrix:

- A Zero B Unit
 C Scalar D Singular

21. Mid point of the points (2, 2) and (0, 0) is ----:

- A (1, 1) B (1, 0)
 C (0, 1) D (-1, -1)

22. Any point on the bisector of an angle is ---- from its arms:

- A Perpendicular B Proportional
 C Collinear D Equidistant

23. If x is no larger than 10, then ----:

- A $x \geq 8$ B $x \leq 10$
 C $x < 10$ D $x > 10$

24. H.C.F of $x - 2$ and $x^2 + x - 6$ is ----:

- A $x^2 + x - 6$ B $x + 3$
 C $x - 2$ D $x + 2$

25. Point (2, -3) lies in quadrant:

- A I B II
 C III D IV