

Note:

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.

- 1.1 Diagonals of a parallelogram — each other at a point :
 (A) Intersect (B) Do not intersect
 (C) Parallel (D) None of these
- 2 L.C.M. of $a^2 + b^2$ and $a^4 - b^4$ is —:
 (A) $a^2 + b^2$ (B) $a^2 - b^2$
 (C) $a^4 - b^4$ (D) $a - b$
- 3 Mid-point of the points (2, 2) and (0, 0) is:
 (A) (1, 1) (B) (1, 0)
 (C) (0, 1) (D) (-1, -1)
- 4 A triangle having two sides congruent is called —:
 (A) Scalene (B) Right angled
 (C) Trapezium (D) Isosceles
- 5 A statement involving any of the symbols $<$, $>$, \leq or \geq is called — :
 (A) Equation (B) Inequality
 (C) Identity (D) Linear equation
- 6 The relation $x = \log_a y$ implies—:
 (A) $a^y = x$ (B) $y^a = x$
 (C) $y^x = a$ (D) $a^x = y$
- 7 One and only one line can be drawn through — points :
 (A) One (B) Two
 (C) Three (D) Many
- 8 $A^{-1} = \frac{1}{?} \text{Adj } A$
 (A) $|A|$ (B) A

- (C) $[A]$ (D) \bar{A}
- 9 The factors of $x^2 - 5x + 6$ are—:
 (A) $x+1, x+6$ (B) $x-2, x-3$
 (C) $x+6, x-1$ (D) $x+2, x+3$
- 10 The conjugate of $-5 - i$ is :
 (A) $-5 + i$ (B) $5 + i$
 (C) $5 - i$ (D) $-5 - i$
- 11 If $y = 2x + 1, x = 2$, then y is :
 (A) 2 (B) 3
 (C) 4 (D) 5
- 12 Area of — = base x altitudes :
 (A) Triangle (B) Square
 (C) Parallelogram (D) Circle
- 13 Symbol used for perpendicular is :
 (A) \leftrightarrow (B) $=$
 (C) \rightarrow (D) \perp
- 14 If $x = 2 + \sqrt{3}$ then $\frac{1}{x} = ?$:
 (A) $\sqrt{3} + 2$ (B) $-2 + \sqrt{3}$
 (C) $2 - \sqrt{3}$ (D) $-2 - \sqrt{3}$
- 15 A point on the right bisector of a line segment is equidistant from its — :
 (A) Mid-point (B) End points
 (C) Vertex (D) Any point