

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** $4x + 3y - 2$ is an algebraic -----:
- (A) Expression (B) Sentence
(C) Equation (D) Inequation
- 2** The symbol used for "is perpendicular to":
- (A) \parallel (B) \perp
(C) \cong (D) \leftrightarrow
- 3** Congruent figures have same -----:
- (A) Mode (B) Area
(C) Median (D) Diagonal
- 4** Bisection means to divide into ----- equal parts:
- (A) 3 (B) 1
(C) 2 (D) 4
- 5** Imaginary part of $-i(3i + 2)$ is -----:
- (A) $2ab$ (B) -2
(C) 3 (D) -3
- 6** In parallelogram opposite sides are -----:
- (A) Opposite (B) Diagonal
(C) Same (D) Congruent
- 7** One angle on the base of an isosceles triangle is 30° ,

what is the measure of its vertical angle:

- (A) 30° (B) 60°
(C) 90° (D) 120°

- 8** The logarithm of unity to any base is -----:

- (A) 1 (B) 10
(C) e (D) 0

- 9** Factors of $5x^2 - 17x - 12y^2$ are -----:

- (A) $(x + 4y), (5x + 3y)$ (B) $(x - 4y), (5x - 3y)$
(C) $(x - 4y), (5x + 3y)$ (D) $(5x - 4y), (x + 3y)$

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

- (A) Zero (B) Unit
(C) Scalar (D) Singular

- 11** Mid point of the points $(2, -2)$ and $(-2, 2)$ is:

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

- 12** ----- has no unit:

- (A) Ratio (B) Proportion
(C) Congruen. (D) Equality

- 13** If the capacity 'c' of an elevator is at most 1600 pounds, then -----:

- (A) $c \leq 1600$ (B) $c \geq 1600$
(C) $c < 1600$ (D) $c > 1600$

- 14** H.C.F of $a^3 + b^3$ and $a^2 - ab + b^2$ is -----:

- (A) $a + b$ (B) $a^2 + b^2$
(C) $(a - b)^2$ (D) $a^2 - ab + b^2$

- 15** If $y = 2x + 1$, $x = 2$ then y is -----:

- (A) 2 (B) 3
(C) 4 (D) 5