

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 If $(x, 0) = (0, y)$, then $(x, y) =$ -----
- (A) $(0, 1)$ (B) $(1, 0)$
(C) $(0, 0)$ (D) $(1, 1)$
- 2 One angle of a parallelogram is 55° , the remaining angles are of measures
- (A) $55^\circ, 125^\circ, 125^\circ$ (B) $55^\circ, 55^\circ, 55^\circ$
(C) $55^\circ, 55^\circ, 125^\circ$ (D) $125^\circ, 125^\circ, 125^\circ$
- 3 ----- is the order of a square matrix
- (A) 3-by-3 (B) 3-by-1
(C) 2-by-1 (D) 2-by-3
- 4 H.C.F of $a^2 - b^2$ and $a^3 - b^3$ is -----
- (A) $a^2 + ab + b^2$ (B) $a + b$
(C) $a - b$ (D) $a^2 - ab + b^2$
- 5 The medians of a triangle cut each other in the ratio
- (A) 4 : 1 (B) 3 : 1
(C) 2 : 1 (D) 1 : 1
- 6 The ratio between two quantities a and b is represented by
- (A) $a : b$ (B) $a = b$
(C) $a \cong b$ (D) $a \leftrightarrow b$
- 7 Sign used for congruency of two triangles is -----
- (A) = (B) \cong
(C) \leftrightarrow (D)
- 8 Area of square is -----



- (A) 8 cm^2 (B) 16 cm^2
(C) 64 cm^2 (D) 4 cm^2
- 9 $x =$ ----- is a solution of the inequality $-2 < x < \frac{3}{2}$
- (A) -5 (B) 3
(C) $\frac{3}{2}$ (D) 0
- 10 If $\log_4 x = 2$, then $x =$ -----
- (A) 8 (B) 16
(C) $\frac{1}{8}$ (D) $\frac{1}{16}$
- 11 Factors of $8x^3 + 27y^3$ are -----
- (A) $(2x + 3y), (4x^2 + 9y^2)$ (B) $(2x - 3y), (4x^2 - 9y^2)$
(C) $(2x + 3y), (4x^2 - 6xy + 9y^2)$
(D) $(2x - 3y), (4x^2 + 6xy + 9y^2)$
- 12 $\sqrt{4x^2} =$ -----
- (A) $4x$ (B) 2
(C) $2x$ (D) 4
- 13 $(\sqrt{7} + \sqrt{3})(\sqrt{7} - \sqrt{3}) =$ -----
- (A) 4 (B) 46
(C) 10 (D) 52
- 14 Distance between the points $(1, 0)$ and $(0, 1)$ is
- (A) 0 (B) 1
(C) 2 (C) $\sqrt{2}$
- 15 Obtuse angled triangle has ----- angle/s greater than 90° .
- (A) 2 (B) 3
(C) none of these (D) 1