

9th Class 2019

Math (Science)

Group-I

Time: 20 Minutes

(Objective Type)

Paper-I

Max Marks: 15

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- The square root of $a^2 - 2a + 1$ is ----:
- (a) $\pm(a + 1)$ (b) $\pm(a - 1) \checkmark$
(c) $(a - 1)$ (d) $(a + 1)$
- 2- A diagonal of a parallelogram divides it into -- congruent triangles:
- (a) 2 \checkmark (b) 3
(c) 4 (d) 6
- 3- Two parallel lines intersect at --- point / points:
- (a) Three (b) Two
(c) One (d) No \checkmark
- 4- The diagonals of parallelogram --- each other:
- (a) Bisect \checkmark (b) Trisect
(c) Bisect at right angle
(d) Trisect at right angle
- 5- Order of transpose of matrix $\begin{bmatrix} 2 & 1 \\ 0 & 1 \\ 3 & 2 \end{bmatrix}$ is:
- (a) 3 - by - 2 \checkmark (b) 2 - by - 3
(c) 1 - by - 3 (d) 3 - by - 1
- 6- $x = 0$ is a solution of the inequality ----:
- (a) $x > 0$ (b) $3x + 5 < 0$
(c) $x + 2 < 0$ (d) $x - 2 < 0 \checkmark$

- 7- Any point on the bisector of an angle is --- from its arms:
- (a) Un-equidistance
 - (b) Equidistance ✓
 - (c) Large distance
 - (d) Small distance
- 8- $(3 + \sqrt{2})(3 - \sqrt{2})$ is equal to:
- (a) $7\sqrt{\quad}$
 - (b) -7
 - (c) -1
 - (d) 1
- 9- Unit of ratio is ----:
- (a) Degree
 - (b) None ✓
 - (c) cm
 - (d) π
- 10- Point $(-3, -3)$ lies in quadrant:
- (a) I
 - (b) II
 - (c) III ✓
 - (d) IV
- 11- The logarithm of unity to any base is ---- :
- (a) 1
 - (b) 10
 - (c) e
 - (d) 0 ✓
- 12- A ray has end points:
- (a) 1 ✓
 - (b) 2
 - (c) 3
 - (d) 4
- 13- Distance between points $(0, 0)$ and $(1, 1)$ is ----:
- (a) 0
 - (b) 1
 - (c) 2
 - (d) $\sqrt{2}$ ✓
- 14- The conjugate of $5 + 4i$ is ---- :
- (a) $-5 + 4i$
 - (b) $-5 - 4i$
 - (c) $5 - 4i$ ✓
 - (d) $5 + 4i$
- 15- In a parallelogram opposite angles are ----:
- (a) Perpendicular
 - (b) Equal ✓
 - (c) Unequal
 - (d) Acute