Mathematics (Science Group)	Ninth, 2024 Gujranwala Board	Group – I
Time: 20 Min.	Objective	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 order of matrix $\begin{bmatrix} 1 & 3 & 5 \\ 2 & 0 & 4 \end{bmatrix}$ is ----------.

Ⓐ 2-by-2 Ⓑ 2-by-3
Ⓒ 3-by-2 Ⓓ 2-by-1

2 Write $\sqrt[5]{2}$ in exponential form

Ⓐ 2 Ⓑ 2^5
Ⓒ $2^{\frac{1}{5}}$ Ⓓ $2^{\frac{5}{2}}$

3 $\log_a a$ = ----------

Ⓐ 0 Ⓑ –1
Ⓒ 1 Ⓓ 10

4 $(\sqrt{3}+\sqrt{2})(\sqrt{3}-\sqrt{2})$ is equal to

Ⓐ 1 Ⓑ 7
Ⓒ –7 Ⓓ 9

5 What will be added to complete the square of $9a^2 - 12ab$?

Ⓐ $-16b^2$ Ⓑ $16b^2$
Ⓒ $4b^2$ Ⓓ $-4b^2$

6 The square root of $a^2 - 2a + 1$ is ----------.

Ⓐ $\pm(a+1)$ Ⓑ $\pm(a-1)$
Ⓒ $a-1$ Ⓓ $a+1$

7 A statement involving any of the symbols <, >, ≤ or ≥ is called ----------

Ⓐ equation Ⓑ linear equation
Ⓒ identity Ⓓ inequality

8 If $y = 2x + 1$, $x = 2$ then 'y' is

Ⓐ 2 Ⓑ 3
Ⓒ 4 Ⓓ 5

9 Distance between points (0,0) and (1,1) is ----------

Ⓐ 0 Ⓑ 1
Ⓒ 2 Ⓓ $\sqrt{2}$

10 Two lines can intersect at ---------- point/points.

Ⓐ 1 Ⓑ 2
Ⓒ 3 Ⓓ 4

11 Diagonals of a parallelogram ---------- each other at a point.

Ⓐ intersect Ⓑ do not intersect
Ⓒ parallel Ⓓ none of these

12 The right bisectors of three sides of a triangle are ------.

Ⓐ collinear Ⓑ non-congruent
Ⓒ parallel Ⓓ concurrent

13 Symbol used for similarity is

Ⓐ ≅ Ⓑ ↔
Ⓒ Ⓓ

14 Area of parallelogram is the _____ of its base and altitude.

Ⓐ product Ⓑ sum
Ⓒ difference Ⓓ ratio

15 ---------- congruent triangles can be made by joining the mid-points of the sides of a triangle.

Ⓐ 3 Ⓑ 4
Ⓒ 5 Ⓓ 2

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