Mathematics (Science)	Ninth, 2023 Lahore Board	Group – I
Time: 20 Min.	Objective Type	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 Product of $\begin{bmatrix} x & y \end{bmatrix}\begin{bmatrix} 2 \\ -1 \end{bmatrix}$ is----------:

Ⓐ $[2x + y]$ Ⓑ $[x - 2y]$

Ⓒ $[2x - y]$ Ⓓ $[x + 2y]$

2 Which set has closure property w.r.t. addition:

Ⓐ {0} Ⓑ {0, -1}

Ⓒ {0, 1} Ⓓ $\{1, \sqrt{2}, \frac{1}{2}\}$

3 log e = ----------, where e ≈ 2.718:

Ⓐ 0 Ⓑ 0.4343

Ⓒ ∞ Ⓓ 1

4 $(\sqrt{a} + \sqrt{b})(\sqrt{a} - \sqrt{b})$ is equal to:

Ⓐ $a^2 + b^2$ Ⓑ $a^2 - b^2$

Ⓒ $a + b$ Ⓓ $(a - b)$

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

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

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

6 L.C.M. of $a^2 + b^2$ and $a^4 - b^4$ is:

Ⓐ $a^2 + b^2$ Ⓑ $a^4 - b^4$

Ⓒ $a^2 - b^2$ Ⓓ $a - b$

7 Which is the solution of the inequality $3 - 4x \leq 11$:

Ⓐ -8 Ⓑ -2

Ⓒ $-\frac{14}{4}$ Ⓓ None of these

8 If (x, 0) = (0, y), then (x, y) is :

Ⓐ (0, 0) Ⓑ (0, 1)

Ⓒ (1, 0) Ⓓ (1, 1)

9 Distance between the points (1, 0) and (0, 10) is:

Ⓐ 0 Ⓑ 1

Ⓒ $\sqrt{2}$ Ⓓ 2

10 Sum of interior angles of a triangle is:

Ⓐ 90° Ⓑ 180°

Ⓒ 360° Ⓓ 0°

11 Total number of medians in a triangle are:

Ⓐ 3 Ⓑ 2

Ⓒ 1 Ⓓ 4

12 The right bisectors of the sides of the triangle are ----------

Ⓐ Parallel Ⓑ Collinear

Ⓒ Concurrent Ⓓ Non-concurrent

13 Ratio between two elements 'a' and 'b' is represented by:

Ⓐ $a + b$ Ⓑ $a \times b$

Ⓒ $a - b$ Ⓓ $a : b$

14 The region enclosed by the bounding lines of a closed figure is called ---------- of the figure:

Ⓐ Perimeter Ⓑ Area

Ⓒ Volume Ⓓ None of these

15 The medians of a triangle cut each other in the ratio ----------:

Ⓐ 4 : 1 Ⓑ 3 : 1

Ⓒ 2 : 1 Ⓓ 1 : 1

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