Mathematics	9th, Gujranwala Board, 2015	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. Cutting or filling two or more circles will result in zero mark in that question.

1 If $X + \begin{bmatrix} -1 & -2 \\ 0 & -1 \end{bmatrix} = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$, then X is equal to

(A) $\begin{bmatrix} 2 & 2 \\ 2 & 0 \end{bmatrix}$ (B) $\begin{bmatrix} 0 & 2 \\ 2 & 2 \end{bmatrix}$

(C) $\begin{bmatrix} 2 & 0 \\ 0 & 2 \end{bmatrix}$ (D) $\begin{bmatrix} 2 & 2 \\ 0 & 2 \end{bmatrix}$

2 The value of i^9 is
(A) 1 (B) –1
(C) i (D) $-i$

3 The logarithm of unity to any base is _____
(A) 1 (B) 10
(C) e (D) 0

4 $(3+\sqrt{2})(3-\sqrt{2})$ is equal to
(A) 7 (B) –7
(C) –1 (D) 1

5 Factors of $x^2 - 5x + 6$ are
(A) (x+1) (x-6) (B) (x-2)(x-3)
(C) (x + 6)(x-1) (D) (x + 2)(x + 3)

6 H.C.F of $a^3 + b^3$ and $a^2 - ab + b^2$ is
(A) a + b (B) $a^2 - ab + b^2$
(C) $(a-b)^2$ (D) a^2+b^2

7 x = _____ is a solution the inequality

$$-2 < x - \frac{3}{2}$$

(A) –5 (B) 3
(C) 0 (D) $\frac{3}{2}$

8 If (x -1, y + 1) = (0, 0), then (x, y) is equal to
(A) (1, -1) (B) (-1, 1)
(C) (1, 1) (D) (-1, -1)

9 Mid-point of the points (-2, 2) and (2, -2) is
(A) (2, 2) (B) (-2, -2)
(C) (0, 0) (D) (1, 1)

10 If three points lie on the same line, then these points are called
(A) collinear (B) non-collinear
(C) parallel (D) unparallel

11 Medians of a triangle are
(A) concurrent (B) parallel
(C) opposite (D) non collinear

12 The _____ of circle is on the right bisectors of each of its chords.
(A) chord (B) radius
(C) centre (D) sector

13 _____ has no unit.
(A) length (B) width
(C) area (D) ratio

14 Parallelograms on equal bases and having the same (or equal) altitude are _____ in area.
(A) unequal (B) equal
(C) congruent (D) similar

15 A quadrilateral having each angle equal to 90° is called
(A) parallelogram (B) rectangle
(C) trapezium (D) rhombus