

# 9th Class 2016

Math (Science)	Group-II	Paper-I
Time: 20 Minutes	(Objective Type)	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-  $\frac{1}{a-b} - \frac{1}{a+b} = \text{-----}$ .

- (a)  $\frac{2a}{a^2 - b^2}$                       (b)  $\frac{2b}{a^2 - b^2} \checkmark$   
(c)  $\frac{-2a}{a^2 - b^2}$                       (d)  $\frac{-2b}{a^2 - b^2}$

2- Which order pair satisfy the equation  $y = 2x$ :

- (a) (1, 2)  $\checkmark$                       (b) (2, 1)  
(c) (2, 2)                          (d) (1, 1)

3- If  $\begin{vmatrix} 2 & 6 \\ 3 & x \end{vmatrix} = 0$ , then "x" equal to:

- (a) 6                                  (b) -9  
(c) -6                                (d) 9  $\checkmark$

4- Mid-point of the points (2, -2) and (-2, 2) is:

- (a) (2, 2)                          (b) (0, 0)  $\checkmark$   
(c) (-2, 2)                        (d) (1, 1)

5- In a triangle, there can be ---- right angle.

- (a) 1  $\checkmark$                               (b) 2  
(c) 3                                  (d) None of these

6- Parallelogram is divided by its diagonals into ---- triangles of equal area.

- (a) 2  $\checkmark$                               (b) 3  
(c) 4                                  (d) 5

- 7- Bisection means to divide into ---- equal parts.  
(a) 2 ✓ (b) 3  
(c) 4 (d) None of these
- 8- The medians of a triangle cut each other in the ratio ----.  
(a) 4 : 1 (b) 3 : 1  
(c) 2 : 1 ✓ (d) 1 : 1
- 9- The solution set of  $|x - 4| = -4$  is ---- .  
(a)  $\{-4\}$  (b)  $\{4, -4\}$   
(c)  $\{0\}$  (d)  $\{\}$  ✓
- 10- Similar triangles are of same shape but ---- sides.  
(a) Same (b) Different ✓  
(c) Both A and B (d) None of these
- 11- Congruent triangles are ---- .  
(a) Parallel (b) Similar ✓  
(c) Different (d) None of these
- 12- Point  $(-3, -3)$  lies in the quadrant:  
(a) III ✓ (b) II  
(c) I (d) IV
- 13- Imaginary part of  $-i(3i + 2)$  is ---- .  
(a)  $-2$  ✓ (b) 2  
(c) 3 (d)  $-3$
- 14- H.C.F of  $x - 2$  and  $x^2 + x - 6$  is:  
(a)  $x^2 + x - 6$  (b)  $x + 3$   
(c)  $x - 2$  ✓ (d)  $x + 2$
- 15- The logarithm of any number of itself as a base is ----.  
(a) 1 ✓ (b) 0  
(c)  $-1$  (d) 10