**Aarambh Classes**

**Class IX**

**Maths test**

**M.marks : 20**

MCQ (1 mark )

1. Which of the following is a rational number ?

(a) (b) 0.10100100010000.......................

© (d) 0.853853853........................

1. The simplest form of 1.666......is :

(a) 833 /500 (ii) 8/5 (iii) 5/3 (iv) none of these

3. The value of =?

(a) 5 (b) - 5 (c) (d)

4. Zero of the polynomial p(x) = x +x-6 are

(a)2,3 (B)-2,3 © 2,-3 (d) -2,-3

5. For what value of k is the polynomial p(X) =2x-kx+3x+10 is exactly divisible by (x+2) ?

(a) (b) © (d) -3

6. If a +b+c=0 ,then (=?

(a) 1 (b) 0 ©-1 (d) 3

7. If the point (3,4) lies on the graph of 3y=ax+7 then the value of a is

(a) (b) (C) (d)

8. X=5 ,Y=2 is a solution of the linear equation :

(a) x+2y=7 (b) 5x+2y=7 © x+y=7 (d) 5x+y=7

9. the ordinate of every point on the x-axis is

(a) 1 (b) -1 © 0 (d) any real number

10. The perpendicular distance of the point A (3,4)from the y axis is :

(a)3 (b) 4 © 5 (d) 7

2 marks questions :

11. Calculate the area of the shaded region in the given figure :

12 . Find the value of x in the given figure :

ABCDEF

13 . The three vertices of tri ABC are A (1,4) ,B (-2,2) and C (3,2) .Plot these points on a graph paper and calculate the area of tri ABC .

14 . A taxi charges rs 20 for the first kilometre and Rs 12 per km for subsequent distance covered .Taking the total distance covered as x km and total fare as rs y ,write a linear equation depicting the relation between x and y .Draw the graph between x and y .From your graph,find taxi charges for covering (a)12 km and (b) 20 km .

15 .If a+b+c =5 and ab+bc+ca =10 ,then prove that