**Aarambh Classes**

**Class X**

**MATHS TEST PAPER**

**FIRST FIVE CHAPTERS**

**TIME : 1 HOUR M.Marks :40**

MCQ :

1. The HCF and the LCM of 12,21 and 15 respectively ,are :
2. 3,140 (ii) 12,420 (iii) 3,420 (iv) 420,3
3. If and are zeroes of the polynomial x-1 ,then value of is :

(a) 2 (b) 1 © -1 (d) 0

1. If , are the zeroes of the polynomial p(x) =4x-3x-7 ,then is equal to :

(a) (b) © (d) -3/7

1. The pair of linear equations + =7 and 9x +10y =14 is

(a) consistent (b)inconsistent © consistent with one solution (d) consistent with many solutions

1. The roots of the equation x +3x-10 =0 are :
2. 2,-5 (b) -2,5 (C) 2,5 (d) -2,-5
3. IF A,B,C form an AP with common difference d,then the value of a-2b-c is equal to
4. 2a+4d (b) 0 © -2a-4d (d) -2a-3d

1 mark questions :

1. What is the common difference of an AP in which = 84 ?
2. Find the quadratic equation in x whose roots are 2 and –5 .
3. If 17x-19y =53 and 19 x-17y =55 ,then find the value of (x+y) .
4. If and are thezeroes of the quadratic polynomial f(x) = x-x-4 ,find the value of .

2 marks questions :

1. Show that 5 + 2 is an irrational number ,where is given to be an irrational number .
2. Find a quadratic polynomial whose zeroes are 5-3 and 5+3 .
3. Solve the pair of equations x=5 and y=7 graphically .
4. If x = and x =--3 are roots of the quadratic equation ax+7x+b=0 ,find the val ue of a and b.
5. Find the middle term of the AP ,213 , 205 , 197 ,….............,37 ,

3 marks questions :

1. How many terms are there in the AP whose first and fifth term are –14 and 2 , respectively and the last term is 62 .
2. If the equation (1+m)x +2mcx +c-a =0 has equal roots then show that c=a(1+m)
3. Half of the difference between two numbers is 2 .The sum of the greater number and twice the smaller number is 13 .Find the numbers .
4. If the zeroes of the polynomial x +px+q are double in value to the zeroes of the polynomial 2x-5x-3 ,then find the values of p and q .
5. Find the largest possible positive integer that divides 125, 162 and 259 leaving remainders 5 ,6 and 7 respectively.

5 marks question :

1. .If one pipe takes 3 hours more than the other to fill the cistern ,Two pipes running together can fill a cistern in 3hours more than the other to fill the cistern ,find the time in which each pipe would fill the cistern .

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