**Aarambh Classes**

**Class X(CBSE)**

**Maths test**

**Time : 1 hour M.Marks : 25**

1. Write the decimal expansion without actual division.
2. If the product of two zeroes of the polynomial p(x) =2x3+6x2-4x+9 is 3,then find its third zero.
3. Find the value of ‘c’ for which the pair of equations cx-y=2 and 6x-2y=3 will have infinitely many solutions .
4. Find the HCF and LCM of 24,36 and 60 using prime factorization method .
5. If one of the zeroes of the quadratic polynomial f(x)=4x2-8kx-9 is equal in magnitude but opposite in sign to the other ,find the value of k.
6. The sum of the two digit number and the number obtained by reversing the order of its digits is 165.If the digits differ by 3,find the number.
7. In an AP,if the 12th term is -13 and the sum of its first four terms is 24,find the sum of its first 10 terms.
8. From a pack of 52 playing cards all cards whose numbers are multiples of 3 are removed .A card is now drawn at random.What is the probability that the card drawn is (i) a face card

(ii)an even numbered red card ?

1. Find the 9th term from the end of the AP 5,9,13,…….185.
2. If the total surface area of a solid hemisphere is 462 cm2 ,find its volume .