**Aarambh classes**

**Class IX(CBSE )**

**Maths test**

**Polynomials**

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

1. Find p(0),p(1) and p(2) of the polynomial p(x) = 2+t +2t2-t3
2. Verify whether the following are zeros of the polynomial ,indicated against them .
3. P(x) =lx+m, x=-
4. P(x) =3x2-1,
5. Find the zero of the polynomial p(x) =2x+5
6. Find the remainder obtained on dividing p(x) = x3+1 by x+1 using actual division.
7. Check whether the polynomial q(t) = 4t3+4t2 –t-1 is a multiple of 2t+1.
8. Check whether 7+3x is afactor of 3x3 +7x.
9. Factorise x3-23x2+142x-120 .
10. Factorise : (i) 6x2+5x-6 (ii) 12x2-7x +1
11. Find the value of k ,if x-1 is a factor of p(x) in each of the following cases :
12. P(x) = 2x2 +kx+ (ii)p(x) =kx2-3x+k