**ASSIGNMENT (2020-21)**

**CLASS - X SUBJECT – MATHEMATICS CH- 2 (POLYNOMIALS)**

1. If = , then is equal to :

0 1 sum of zeroes product of zeroes

1. The quadratic polynomial whose zeroes are and is

none of these

1. The value of so that is divisible by , is exact divisor of

18 45 20 36

1. Graph of a quadratic polynomial is a

straight line circle parabola ellipse

1. If 1 is a zero of the polynomial, , then the value of is :

-1 2 -2

1. Write a quadratic polynomial with zeros 5 + √3 & 5 – √3.
2. What must be subtracted from the polynomial , so that the resulting polynomial is exactly divisible by
3. If the product of zeroes of is 3, then find the value of
4. Find the zeroes of the cubic polynomial , if the zeroes are in A.P.
5. If is a factor of the polynomial and prove that
6. If the polynomial is divided by another polynomial , the remainder comes out to be Find the values of
7. . If https://www.entranceindia.com/wp-content/uploads/2016/03/14-2.png are the zeroes of the polynomial 8x2 – 4x + 2(k – 4) find k.
8. If α, β and γ are the zeroes of the polynomial 8x3 + 4x2 – 3x + 2 find α−1 + β−1 + γ−1.
9. If one of the root of the equation x2 – 3x + q = 0 is twice other, find the value of q.
10. Divide 7 + 18x + x2 – 4x3 by 3 + 3x – 4x2 and verify the division algorithm.