SUBJECT- MATHEMATICS,CLASS-X CHAPTER-2(POLYNOMIAL) WORKSHEET (BASIC)

TIME-45 MINS

MAXIMUM MARKS-20

<u>Choose the correct option.(2X1=2)</u>

1. The degree of polynomial $x^5 - x^4 + 7$ is:(a) 5(b) 4(c) 2(d) 02.At how many points the given polynomial (x + 1)(x + 3)x intersects with x-axis :

(a) 3 (b) 2 (c) 1 (d) 4 Fill in the blanks: (2**X1-2**)

Fill in the blanks: (2X1=2)

3: The degree of a constant polynomial is-----.

4: The graph of a quadratic polynomial is called as ------.

Answer the following: (2X1=2)

5: Find a quadratic polynomial whose roots are 2, and -1/2.

6: Find the product of zeroes in the polynomial $3x^2 - 3x - 6$.

Short Answer Type Questions-I: (2X2=4)

7:Find the sum and product of the zeros of the polynomial $9x^2$ - 5.

8:If the sum of the zeros of the quadratic polynomial $kx^2 + 3x + 4$ is equal to their product, then find the value of k.

Short Answer Type Questions-II: (2X3=6)

9: If a and ß are zeros of $p(x) = 2x^2 - x - 6$, then find the value of the a ⁻¹+ ß⁻¹

10:Find zeroes of the Polynomial $p(x) = 4x^2 + 5\sqrt{2x} - 3$ & verify relationship between the zeroes and the co-efficient of the polynomials.

Long Answer Type Question(1X4=4)

11:If the polynomial x^4 + $2x^3$ + $8x^2$ + 12x + 18 is divided by another polynomial x^2 + 5, theremainder comes out to be px + q, find the value of p and q.

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