J& K POLICE PUBLIC SCHOOL MIRAN SAHIB JAMMU

Class : 9th **Subject Mathematics**
Time:45 min **Max. Marks:20**
Teacher: Iqbal Singh **Mb. 9419258033**

ASSIGNMENT 3 (POLYNOMIALS)

General Instructions

Q. Nos . 1-2 carry 1 marks each, Q.Nos. 3-4 carry 2 marks each Q. Nos. 5-6 carry 3 marks each and Q.Nos. 7-8 4 marks each.

Q1. What is the degree of polynomial p(x) = $\sqrt{5}$?

Q2. State Factor theorem.

Q3. Evaluate , using proper identity : $(99)^2$

Q4. Find the product of (x- 3)(x+5) using appropriate identities.

Q5. Find the value of k, if x- 1 is a factor of

$P(x) = 2x^2 + kx + \sqrt{2}$

Q6. Use factor theorem determine whether g(x) is a factor of p(x)

$P(x) = 2x^2 + x - 2x - 1$, $g(x) = x-3$

Q7. Factorise $x^3 + 13x^2 + 32x + 20$

Q8. The polynomial $f(x) = x + 15x + 9x - a$ when divided by (x+4) leaves a remainder -80 , find the value of 'a'.