EXEMPLAR POINT Complete Institute Tor Students

(A Complete Institute For Students)

CREATING AND SETTING EXAMPLES FOR FUTURE...

CLASS IX MATHS TEST ON POLYNOMIALS

M.M.: 25

TIME : 1 HR.

2

2

2

2

2

2

2

2

3

3

3

GENERAL INSTRUCTIONS

- 1. All questions are compulsory.
- 2. Marks are indicated against each question.
- 3. Use of calculator is not permitted. You may ask for logarithmic table, if required.
- 4. Answer questions in serial order as far as possible.

ALL THE BEST AND HAVE FAITH IN YOURSELF

1.	Find $P(0)$ and $P(1)$) for the following pol	ynomial $P(x) =$	(x −1) (x + 1).	

2. Verify whether the following are zeroes of the polynomial, indicated against the

$$P(x) = 3x^2 - 1$$
; $x = \frac{-1}{\sqrt{3}}, \frac{2}{\sqrt{3}}$

- **3.** Find the zero of the polynomial :
 - **a.** P(x) = ax; $a \neq 0$ **b.** P(x) = 2x + 5
- 4. Find the remainder when $x^3 + x^2 + 3x + 1$ is divided by 5 + 2x.
- 5. Find the value of k; if x –1 is a factor of P(x) = $kx^2 \sqrt{2}x + 1$.
- 6. Factorize : $6x^2 + 5x 6$
- 7. Using suitable identities find the following product : $\left(y^2 + \frac{3}{2}\right)\left(y^2 \frac{3}{2}\right)$.
- **8.** Evaluate 95×96 using identity.
- **9.** Factorize : $x^3 3x^2 9x 5$.
- **10.** Factorize : $27x^3 + y^3 + z^3 9xyz$.
- **11.** Without actually calculating cubes find the value of : $(-12)^3 + (7)^3 + (5)^3$.