

By. Er. Dharmendra Sir

7974073108, 9584873492

# **DPM CLASSES**

6th to 10th (Math's & Science), 11th & 12th (Physics, Chemistry, Math's)

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**TEST - PAPER (CBSE/NCERT)**

## **POLYNOMIALS**

**SESSION -2024-25**

**CLASS - 9<sup>th</sup>**

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Time : 1 hr

∴ Polynomials :

mm!

Q. 1. using suitable identity evaluate the following :  $101 \times 102$ Q. 2. Factorise the following :  $9x^2 - 12x + 3$ Q. 3. If  $a+b+c = 9$  and  $ab+bc+ca = 26$ , find  $a^2+b^2+c^2$ Q. 4. Find  $(2x-y+3z)(4x^2+y^2+z^2+2xy+3yz-6xz)$ Q. 5. Factorise :  $a^3 - 8b^3 - 64c^3 - 24abc$ 

Q. 6. Find the value of :

$$x^3 + y^3 - 12xy + 64, \text{ when } x+y = -4$$

Q. 7. Without actually calculating the cubes, find the value of :  $(0.2)^3 - (0.3)^3 + (0.1)^3$

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Q.8. If the polynomials  $az^3 + 4z^2 + 3z - 4$  and  $z^3 - 4z + a$  leave the same remainder when divided by  $z - 3$ , find the value of  $a$ .

Q.9. Simplify:  $(2x - 5y)^3 - (2x + 5y)^3$



Q.10.  $a + b + c = 5$  and  $ab + bc + ca = 10$ , then prove that  $a^3 + b^3 + c^3 - 3abc = -25$ .



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