By. Er. Dharmendra Sir 7974073108, 9584873492

DPM CLASSES

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

TEST - PAPER (CBSE/NCERT)

ALGEBRAIC EXPRESSIONS

SESSION -2024-25

CLASS - 7th

JOIN TODAY FOR ADVANCE CONCEPTS

ONLY IN ₹1000 PER MONTH

MRP: ₹ 100/- ONLY

ALSO, BASIC CONCEPTS CLASSES IN SUMMER VACATION Apr, May & Jun (Every Year)

Add: Block -B, Near Glory Villa, 60 feet Road (Nearest land mark Scindia Statue), Shatabdipuram, Gwalior

Time : 1 hr : Algebraic Expressions : ① mm :

Q. 1. Get the algebraic Expressions in the following cases using variables, constants and arithmetic operations.

(i) Numbers x and y both squared and added.

(ii) Sum of numbers a and b subtracted from 10.

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Q. 2. Identify terms and factors in the expressions given below :

(i) $-4x+5$ (ii) $1.2ab - 2.4b + 3.6a$

Q. 3. Identify terms which contain x and give the coefficient of x.

(i) $7x + xy^2$ (ii) $1+x+xy$

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Q. 4. Identify like terms in the following :

$-xy^2, -4yx^2, 8x^2, 2xy^2, 7y, -11x^2, -11x^2, -100x, -11yx, 20x^2y.$

Q.5. If $m = 2$, find the value of :

(i) $3m^2 - 2m - 7$ (ii) $\frac{5m}{2} - 4$

Q.6. Find the value of the following expressions when $x = -1$

(i) $2x^2 - x - 2$ (ii) $x^2 + 2x + 1$

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Q.7. If $a = 2$, $b = -2$, find the value of :

(i) $a^2 + b^2$ (ii) $a^2 - b^2$

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Q.8. Simplify the expressions and find the value if x is equal to 2

(i) $6x + 5(x - 2)$ (ii) $4(2x - 1) + 3x + 11$

Q.9. What should be the value of a if the value of $2x^2 + x - a$ equal to 5, when $x = 0$?

Q.10. Simplify and find its value when $a = 5$, $b = -3$

$$2(a^2 + ab) + 3 - ab$$

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