



# SHIKSHA CLASSES

Sub. : Maths

Question Paper

Marks : 20

Std. : VIII<sup>th</sup> - S.B.

10. Division of Polynomials

Time : 45 min.

**Q.1 : A) Select the most appropriate Alternative.** 02

1)  $(-36x^4) \div 4x = ?$

- a)  $9x^3$       b)  $-9x^3$       c)  $9x^5$       d)  $-9x^5$

2)  $(64y^2 - 4) \div (4y - 1) = ?$

- a)  $16y - 4$       b)  $16y + 4$       c)  $16y + 1$       d)  $16y - 1$

**: B) Solve the following.** 01

1) Divide :  $-26x^4 \div (-13x)$

**Q.2 : A) Solve any one of the following. (Activity)** 02

1) Fill in the blanks in the following examples.

i)  $2(2a + 3a) = \square$

ii)  $3p \times p^3 = \square$

2) Activity : Degree of a polynomial - The highest index of a variable in the given polynomial is called the degree of the polynomial.

Ex. i)  $x^3 - 3x^2 + 5x + 1$ , The degree of the polynomial is  $\square$

ii)  $2 - 3x + 7x^2$ , The degree of the polynomial is  $\square$

iii)  $2y - 3$ , The degree of the polynomial is  $\square$

iv)  $7$ , The degree of the polynomial is  $\square$

**: B) Solve any one of the following.** 02

1) Divide :  $40a^3 \div (-10a)$

2) Divide :  $(5x^3 - 3x^2) \div x^2$

**Q.3 : A) Solve any one of the following. (Activity)** 03

1) Fill in the boxes:

i)  $5m^2 \times 3m^2 = \square$

ii)  $(2x + 5y) \times \frac{3}{x} = \square$

iii)  $(3x^2 + 4y) \times (2x + 3y) = \boxed{\phantom{000000}}$ .

2) Divide and write the correct terms in the boxes.

i)  $(5m^2) \div (-m)$

$$\begin{array}{r} \boxed{\phantom{00}} \\ -m \overline{) 5m^2} \\ \underline{-\phantom{00}} \\ \phantom{00} \end{array}$$

ii)  $(-20y^5) \div (2y^3)$

$$\begin{array}{r} \boxed{\phantom{00}} \\ 2y^3 \overline{) -20y^5} \\ \underline{+\phantom{00}} \\ \phantom{00} \end{array}$$

**: B) Solve any one of the following.**

03

1) Divide and write the quotient and the remainder :  $(6x^5 - 4x^4 + 8x^3 + 2x^2) \div 2x^2$

2) Divide and write the quotient and the remainder :  $(5x^3 - 3x^2) \div x^2$

**Q.4 : Solve any one of the following.**

04

1) Divide and write the quotient and the remainder :  $x^5 + x^4 + x^3 + x^2 + x + 1$  by  $x^3 + 1$ .

2) Divide :  $(6x^4 + 3x^2 - 9 + 5x + 5x^3) \div (x^2 - 1)$ .

**Q.5 : Solve any one of the following.**

03

1) Divide :  $(a^4 - b^4) \div (a - b)$  (Hint : Use factorisation)

2) If  $12x^3 - 8x^2 - 6x + 10 = (3x - 2)(4x^2 - 2) + R$ , then find R.

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