

Class 9 - Maths
Polynomials

Test Paper - 1

1. The expanded form of $(x + y - z)^2$ is - (1)
- (a) $x^2 + y^2 + z^2 + 2xy + 2yz + 2zx$
 - (b) $x^2 + y^2 - z^2 + 2xy - 2yz - 2zx$
 - (c) $x^2 + y^2 + z^2 + 2xy - 2yz - 2zx$
 - (d) $x^2 + y^2 + z^2 + 2xy + 2yx + 2zx$
2. The value of $(102)^3$ - (1)
- (a) 1061208
 - (b) 1001208
 - (c) 1820058
 - (d) None of these
3. If $x+y+z=0$, then $x^3 + y^3 + z^3$ is - (1)
- (a) xyz
 - (b) $2xyz$
 - (c) $3xyz$
 - (d) 0
4. The degree of Constant function is - (1)
- (a) 1
 - (b) 2
 - (c) 3
 - (d) 0
5. The factors of $x^2 - \frac{y^2}{100}$ (1)
- (a) $x^2 + y^2 - 2xy$
 - (b) $(x - \frac{y}{10})(x + \frac{y}{10})$
 - (c) $(x - \frac{y}{10})(x - \frac{y}{10})$
 - (d) none of these

6. $(x + y)^3 = ?$

- (a) $(x^3 + y^3 - 3xy(x + y))$
- (b) $(x^3 + y^3 + 3xy(x + y))$
- (c) $(x^3 - y^3 - 3xy(x + y))$
- (d) $(x^3 - y^3 - 3xy(x - y))$

7. $97 \times 107 = ?$ using Identity -

- (a) $x^2 + (a + b)x + ab$
- (b) $x^2 + (a - b)x - ab$
- (c) $x^2 + (a + b)x - ab$
- (d) None of these

8. $(-11)^3 + (7)^3 + (4)^3$ will be equal to -

- (a) $3 \times 11 \times 7 \times 4$
- (b) $3 \times (-11) \times 7 \times 4$
- (c) $(-11 + 7 + 4)$
- (d) 0

9. Factors of $x^3 + y^3 + 3x^2y + 3xy^2$ are-

- (a) $(x + y)^3$
- (b) $(x - y)^3$
- (c) $(x^3 + y^3)$
- (d) $(x^3 - y^3)$

10. Factors of $(9x^2 - 6xy + y^2)$ are-

- (a) $(3x + y)^2$
- (b) $(3x - y)^2$
- (c) $(3x + y)(3x - y)$
- (d) None of these

8. Half of a herd of deer are grazing in the field and three fourth of the remaining are playing nearby. The rest 9 are drinking water from the pond.

Find the number of deer in the herd. (3)

9. Sum of the digits of a two digit number is 12. When we interchange the digits, it is found that the resulting new number is greater than the original number by 54. What is the two-digit number? (3)

10. Divide 4500 into two parts such that 5% of the first part is equal to 10% of the second part. (3)

11. Three numbers are in the ratio of 4:5:6. If the sum of the largest and smallest equals the sum of the third and 55. Find the numbers. (3)

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