

# UNIT TEST

## ALGEBRA

CLASS : 7

TOTAL MARKS : 30

### I. CHOOSE THE BEST ANSWER

5 Marks

1. \_\_\_\_\_ is a binomial.

a.  $3x$       b.  $6 + 3v$       c.  $4m + 2n + c$       d.  $x + y + z + 1$

2. The algebraic statement for '5 more than y' is \_\_\_\_\_

a.  $y - 5$       b.  $5y$       c.  $y + 5$       d.  $5 - y$

3. The value of  $5v - 2$  when  $v = 1$  is \_\_\_\_\_

a. 4      b. 3      c. 5      d. 7

4. The number of terms in the expression  $3ab + 4c + 6$  is \_\_\_\_\_

a. 1      b. 2      c. 6      d. 3

5.  $17mn + 2mn =$  \_\_\_\_\_

a.  $19mn$       b.  $19m^2n^2$       c. 19      d.  $19 + mn$

### II. FILL IN THE BLANKS

5 Marks

6. When we subtract ' $-d$ ' from ' $d$ ', we have \_\_\_\_\_

7. The solution of ' $c + 7 = 12$ ' is  $c =$  \_\_\_\_\_

8. If ' $b$ ' is a natural number, then \_\_\_\_\_ is its successor.

9. The addition of  $4xy$ ,  $-3xy$  and  $2xy$  is \_\_\_\_\_.

10. The additive inverse of ' $5pq$ ' is \_\_\_\_\_.

### III.GIVE SHORT ANSWERS

10 Marks

11. Find the sum:  $u + v$ ,  $u - v$ ,  $-2v$

Ans: \_\_\_\_\_

12. Write the numerical co-efficients of the following terms

$2pq$ ,  $-9a$ ,  $x$ ,  $3ab$

Terms	_____	_____	_____	_____
Numerical co-efficients	_____	_____	_____	_____

13. If  $p = 2$ , then find the value of

(i)  $2p-1$

(ii)  $p+2$

Ans: \_\_\_\_\_

Ans: \_\_\_\_\_

14. Select the like terms among the following:

$-3x$ ,  $5y$ ,  $7xy$ ,  $-yz$ ,  $5x$

15. Subtract ' $5v+4w$ ' from ' $8v - 2w$ '

Ans: \_\_\_\_\_

**16. Simplify:  $(x + y - z) + (3x - 5y + 7z) + (14x + 7y - 6z)$**

**Ans : \_\_\_\_\_**

**17. 15 removed to thrice a whole number gives 45. Find the Number. (Form a suitable equation by using the variable 'x')**

**The equation = \_\_\_\_\_**

**The required number = \_\_\_\_\_**