**Subject:** - Mathematics **Topic:** - **Algebraic Expressions** 

## **TEST PAPER**

CBSE-7<sup>th</sup>

Time: - 60mins, M.M:-25

(SECTION A - 1 MARK)

1. 
$$a^2 - (-a)^2$$
 is equal to

- a) -2a<sup>2</sup>
- b) 2a<sup>2</sup>
- c) 0

- d) a<sup>4</sup>
- 2. Find the value of  $-4x^2y^2 + 6xy + 8x + 12y 1$ , when x = -2, y = -1
- a) -23
- b) 23
- c) -33
- d) 33
- 3. Two like terms differ only in their \_\_\_\_\_ coefficients.
- 4. The value of  $ax^2 + bx + c$  at  $x = -\frac{b}{a}$  is
- a) a

- b)  $b^2 4ac$
- c) 0
- d) c

- 5. A binomial is an algebraic expression with
- a) degree 2
- b) two terms c) two variables
- d) none of these

## (SECTION B – 2 MARKS)

- 1. In a class of  $(4y^2 + y 8)$  students, 2y + 16 play football and the rest play basketball. How many play basketballs?
- 2. How much is 0 greater than  $a^2$   $ab + 7b^2$ ?
- 3. What should be added to -3a + 7b 16 to get the sum -8?

## (SECTION C - 3 MARKS)

- 1. If 4a 3 = 13 then find the value of  $10a^2 5a + 6$ .
- 2. By how much is sum of  $a^4 6a^2b^2 + b^4$  and  $-2a^4 + 5a^2b^2 + 3b^4$  greater than  $-a^4 a^2b^2 4b^4$ ?

## (SECTION D – 4 MARKS)

- 1. From the sum of 4 + 3x and  $5 4x + 2x^2$ , subtract the sum of  $3x^2 5x$  and  $-x^2 + 2x + 5$  and write the degree of the difference obtained?
- 2. The area of the square is  $(4x^2 2x 6)$  sq. units. A triangle inside the square has an area  $(x^2 4x + 5)$  sq. units. Find the area of the shaded portion.



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