BHARATH COACHING CENTRE

7th cbse Maths Total: 40

Algebraic expressions Time: 45 mins

SECTION-A $1 \times 6 = 6$

1. The value which satisfies an equation is called

- 2. Two thirds of the product of x and y added to the sum of x and y is equal to
- 3. If n denotes a natural number, what does 2n denotes?
- 4. If 5 is added to three times the product of two numbers m and n. The expression will be
- 5. The product of $\left(\frac{4p}{5}-3\right)$, $\left(\frac{5p}{8}-6\right)$
- 6. The sum of mn+(5-2) and mn+3 is

 $5 \times 2 = 10$

- 1. If the n^{th} term of a sequence is $n^2 + 3$, what will be its 5^{th} term?
- 2. The length of a rectangle is 2(x+6)cm and its width are half its length. What is its perimeter?
- 3. What must be subtracted from a^3-4 a^2+5 a-6to obtain a^2-2 a+1
- 4. What is the value of the expression $n^3 + 5n^2 2$ for n = 5?
- 5. Sathish is two times taller than Ravi. If Ravi is h meter tall, then Sathish's height is?

SECTION-C $4 \times 3 = 12$

1. A vacuum cleaner set costs Rs.154.25. additional pipe cost of 3 vacuum cleaner set and 5 additional pipes?

- 2. The perimeter of a triangle is 4x-8, one of the sides is 2x-4 and another is 3x+8. Find the third side.
- 3. Construct a right triangle ABC in which base BC+4.8 cm, $\angle B=90^{\circ}$, AC=6.2 cm.
- 4. Subtract $3x^2-5y-2$ from $5y-3x^2+xy$ and find the value of the result if x=2, y=-1.

SECTION-D $3 \times 4 = 12$

1. Ram and sham collected Rs.70 in a week. After one week, ram withdrew Rs. x and sham withdrew Rs. y from the total amount of money. What is the total amount of money left?

- 2. From the sum of 8a-5b+3, 6a+3b+5 subtract the difference of 2a-3b+8, a+2b+6.
- 3. Find the value of the given expressions when a=0, b=-1, c=1
 - a. $a^3 b^3$
 - b. $a^2 + 2ab + b^3$
 - c. $3ab+3ac+c^2$
 - d. $\frac{5a}{10} 4b$