II SUMMATIVE ASSESSMENT(2017-18)

Std. :VIII **Sub: MATHS** **Marks: 50**

Date: 10-04-18 **Time: 2** hrs

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Q1. **(A) Fill in the blanks:(5)**

1. The degree of the polynomial x^2+1 is _____.
2. Compound interest = _____.(write the formula)
3. Volume of cone = _____. (write the formula)
4. Dividend = _____.+ _____
5. $a^3+b^3 =$ _____

(B) Choose the correct option(5)

1. x^2-2x+3 is
(a) Monomial   (b) Binomial   (c) Trinomial (d) None of these
2. 5 percent of 400 is
(a) 20   (b) 30   (c) 40   (d) 50
3. $2y \times$ _____ $= 10y^2$
(a) 8y   (b) 5y   (c) 3y   (d) 2y
4. 1 cubic meter = _____ litres
(a) 100 (b) 200   (c) 1000 (d)10
5. A rate of increase is denoted by _____ sign
(a) Plus (b)Minus (c) Multiplication (d) None of these

(C) Do as directed:(5)

1. m $-\!\!-$ + 4 (write reason whether this is a polynomial or not)
2. P = Rs. 2500 A = Rs. 25000 then find C.I.
3. Factorize x^3+8 .
4. A cylinder has a base of radius 5cm and height 21 cm what is volume ?
5. 60 % of 1610 = ?

Q2. **Solve the following (Any 4)(8)**

1. Factorize $p^2 – 2p – 168$
2. Divide $10 – 25a + 5a^2 \div 5a$ and write the quotient and remainder.
3. The market price of scooter is Rs. 47500. If the selling price is Rs. 43, 700. What is the percentage of discount given by the shopkeeper?
4. If P = Rs. 1,25,000 , R = 12% , N = 2 years then find S.I and amount.
5. The volume of sphere is 36000ð cu.cm .what is its radius ?

Q3. **Solve the following (Any 3)(9)**

1. A wholesale trader sold Rs. 20 crore worth of a cloth this year. If the sale of cloth increases at a rate of 2 % per year, how much will the sale be after 3 years?
2. The height of cone shaped paper hat is 24cm and the radius of its base is 7cm. How much paper will be required to make 10 such hats?
3. Divide the polynomial by the binomial. Write your answer in the form Dividend = divisor x quotient + remainder

   ($5a - 12 + 3a^2 + 64a^4 - 5a^3$) $\div$ ($a^2 - 1$)

4. Find the factors $5y^2z^2 - 5yz - 360$

Q4. **Solve the following (Any 2)(8)**

1. If principle = 3000 Rs. Rate = 5 p.c.p.a , time = 2 years then find simple interest and compound interest.
2. The circumference of the base of cylinder is 44cm , its height is 5 cm what is the volume and total surface area?
3. Use the formula to find factors.
   (a) $8y - 27$ (b) $x^2 - 5x + 6$

Q5. **Solve the following (Any 2)(10)**

1. (a)27 spheres of radius r were melted and one new sphere wasformed. What is the radius of this sphere ?

   (b) If height of cylinder is 25 cm and radius is 7 cm then find curved surface are of cylinder .
2. (a)If market price = Rs. 250 discount percent =12% then find discount and selling price.

   (b)Sharadadevi sold a buffalo through an agent, its price was Rs. 63500 she had to pay a commission of 3%. How much money did Sharadadevi get for the buffalo?

3.Write the co – efficient and degree of each of the following monomials

   (i) $23x^3$

   (ii) 18

   (iii) $-6m^5$

   (iv) a^2

   (v) $-13x^4$