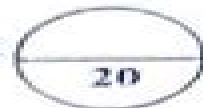


**31 E**  
**FORMATIVE ASSESSMENT - I - 2022 - 23**  
**MATHEMATICS**

(English Medium)  
(Max. Marks : 20)



*2/10/22*

Class : IX ]

[ Time : 45 Mins.

Name of the Student : ..... Roll No. : .....

I. Solve the problems.

$4 \times 1 = 4$

1. Write the exponent form of  $2\sqrt[3]{22}$
2. How many times the diameter of a circle to its circumference ?  
(Ratio represented by)
3. a) 20.22 2022 2022 2022 ..... is a/an \_\_\_\_\_ number.  
b) Every multinomial need not be a polynomial . (True/False)
4. State the Remainder Theorem.

II. Solve the problems.

$2 \times 2 = 4$

5. Express  $3.12\bar{7}$  in the ' $\frac{p}{q}$ ' form.
6. Is  $(x - 1)$  factor of  $(x^{11} - 1)$  ? Justify.

III. Solve the following problem.

$1 \times 4 = 4$

7. Represent ' $-\frac{3}{4}$ ' on a number line.

IV. Solve any ONE of the following.

$1 \times 8 = 8$

8. a) If 'a' and 'b' are rational numbers, find the values of 'a' and 'b' in

$$\frac{\sqrt{3} + \sqrt{2}}{\sqrt{3} - \sqrt{2}} = a + b\sqrt{6}$$

(Or)

- b) Find the remainder when  $2x^2 - 3x + 5$  is divided by  $(2x - 3)$ .

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