31 E

FORMATIVE ASSESSMENT - I - 2022 - 23

MATHEMATICS

(English Medium)

20

Class : IX] (Max. Marks : 20) [Time : 45 Mins.

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

I. Solve the problems. 4 x 1 = 4

1. Write the exponent form of $\sqrt[20]{22}$
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 x 2 = 4

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

III. Solve the following problem. 1 x 4 = 4

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

IV. Solve any ONE of the following. 1 x 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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