BARODA HIGH SCHOOL, ONGC (Afternoon Shift)
Primary Section
UT- I Examination: 2025-26
Subject: - MATHS
Date: 05/08/25 **Std - VIII**
Marks: 25

Q.1(A)Choose the correct option: **(2)**

i) The reciprocal of a negative rational number is:
a) Positive b) Negative c) Zero d) Cannot be determined

ii) Which of the following is a solution of the equation 2x + 3 = 11?
a) 3 b) 4 c) 5 d) 2

iii) A rational number is said to be in standard form if:
a) Its denominator is 1
b) It cannot be simplified
c) Its numerator and denominator have no common factors other than1
d) Both a and c

iv) Which of the following is not a rational number?
a) 0 b) 7 c) −3/4 d) 7/0

(B) Fill in the blanks. **(3)**

i) _____ is called the additive identity for integers and whole numbers as well.

ii) Rational numbers are not closed under _____ operation.

iii) The sum of any rational number and _____ is always the same rational number.

iv) A rational number which has no reciprocal is _____.

v) $\frac{x}{2}$ - 1 = 5, then x = _____.

vi) In the equation 2x − 7 = 3, the constant term on the LHS is ____.

(C) State Whether TRUE or FALSE. **(3)**

i) Transposing a term changes its sign.

ii) $-\frac{4}{11} \times \frac{4}{11} = (-1)$

iii) The product of two rational numbers is always a rational number.

iv) Addition is commutative for rational numbers.

v) Solution of x + 1 = 18 is 17.

vi) 2xy + 5 is an expression with one variable.

(D) Match the following. **(2)**

Column I	Column II
I. a ÷ 0	**a)** Expression
II. a (b + c) = ab + ac	**b)** Equation
III. 2x – 3	**c)** Distributive property
IV. 2x – 3 = 9	**d)** Not defined

Q.2. (A) Solve: **(4)**

i) Find: $\frac{-4}{5} \times \frac{3}{7} \times \frac{15}{16} \times (\frac{-14}{9})$

ii) Find using distributivity: $\{ \frac{7}{5} \times (\frac{(-3)}{5} \} + \{ \frac{7}{5} \times \frac{5}{12} \}$

(B) Solve the linear equation: **(6)**

(i) $m - \frac{(m-1)}{2} = 1 - \frac{(m-2)}{3}$

(ii) 3(5z – 7) – 2(9z – 11) = 4(8z – 13) – 17

Q.3. Do as directed:

i) Simplify the following (using appropriate properties of the rational number and mention the name of properties used): **(2)**

$(\frac{1}{2} \times \frac{13}{10}) + (\frac{1}{2} \times \frac{7}{10})$

ii) Solve the following linear equations. **(1)**

$\frac{x-5}{3} = \frac{x-3}{5}$

(iii)Verify the associative property of addition for rational numbers using 1/2, 1/3, and 1/4. **(2)**