

**O.P. JINDAL SCHOOL, SAVITRI NAGAR****Periodic Test – I (Round – I) 2024 – 25****Class/Section : VIII / \_\_\_\_\_****MM : 20****Subject : Mathematics****Time : 1 Hr.**

Name: \_\_\_\_\_

Roll No. \_\_\_\_\_

**General Instructions:** All questions are compulsory.

- i. Questions 1 to 8 are of 1 Mark.
- ii. Questions 9 to 11 are of 2 Marks.
- iii. Questions 12 to 13 are of 3 Marks.

**Section A****Multiple choice questions:**

1. The additive inverse of a rational number  $\frac{p}{q}$  is
  - a)  $\frac{q}{p}$
  - b)  $\frac{-p}{q}$
  - c)  $\frac{p}{q}$
  - d)  $\frac{-q}{p}$
2. The rational number that does not have a reciprocal is:
  - a) 0
  - b) 1
  - c) -1
  - d)  $\frac{1}{2}$
3. The multiplicative inverse of  $\frac{3}{-2}$  is:
  - a)  $\frac{3}{2}$
  - b)  $\frac{2}{-3}$
  - c)  $\frac{2}{3}$
  - d) none of these
4. On adding  $\frac{3}{7}$  from its multiplicative inverse, we get:
  - a)  $\frac{9}{49}$
  - b)  $\frac{6}{21}$
  - c)  $\frac{58}{21}$
  - d)  $\frac{21}{58}$
5. The multiplicative identity for rational numbers is:
  - a) -1
  - b) 1
  - c) 0
  - d) none of the these
6. How many rational numbers are there in between the given two rational numbers:
  - a) only one
  - b) only two
  - c) infinite
  - d) zero
7.  $\frac{p}{q} + \frac{r}{s} = \frac{r}{s} + \frac{p}{q}$  is called:
  - a) Commutative law of addition
  - b) distributive law of addition
  - c) associative law of addition
  - d) none of these.
8. Which of the following forms a pair of equivalent rational numbers?
  - a)  $\frac{24}{40}$  and  $\frac{35}{50}$
  - b)  $\frac{-25}{35}$  and  $\frac{55}{-77}$
  - c)  $\frac{-8}{15}$  and  $\frac{-24}{48}$
  - d)  $\frac{9}{72}$  and  $\frac{-3}{21}$

**Section B**

**Answer the following:**

9. Represent  $\frac{3}{5}$  and  $\frac{-4}{5}$  on the number line.

10. Evaluate the following:

$$\frac{7}{13} - \left(-\frac{29}{26}\right)$$

11. Solve the following using distributive property:

$$\frac{7}{9} \times \left(\frac{-1}{2}\right) - \frac{7}{9} \times \left(\frac{-3}{2}\right)$$

OR

The product of two numbers is  $\frac{5}{9}$ . If one of the numbers is  $\frac{-8}{21}$ , find the other number.

**Section C**

12. Find three rational numbers between  $\frac{3}{4}$  and  $\frac{4}{5}$ .

13. The length of a rectangle, whose perimeter is  $12\frac{2}{5}$ , is twice its breadth. Find its area

OR

Write the following rational numbers in descending order:

$$\frac{2}{5}, -\frac{1}{5}, \frac{6}{16}, -\frac{3}{8}$$

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*Handwritten notes:*  
A small diagram of a triangle with a line from the top vertex to the base.  
Below it, the word "altitude" is written in cursive.

*Handwritten notes:*  
A small diagram of a rectangle with a diagonal line from the top-left corner to the bottom-right corner.