General Instructions:

1. This question paper consists of **15 multiple-choice questions (MCQs)**.

2. Each question carries **1 mark**. The maximum marks for this test are **15**.

3. The total time allowed to complete this test is **20 minutes**.

4. All questions are compulsory.

5. Each question has **four options (A), (B), (C), and (D)**. Only one option is correct.

6. Students must choose the **most appropriate option** for each question.

7. No marks will be deducted for incorrect answers.

8. Calculators and other electronic devices are **not permitted**.

9. Rough work should be done neatly in the space provided (if any).

10. Read each question carefully before answering.

Test Paper 3

Code: 2026/RationalNumbers/Class7/03

1. Identify the rational number that does not lie between $\frac{1}{4}$ and $\frac{1}{2}$.

    (a) $\frac{3}{8}$

    (b) $\frac{5}{16}$

    (c) $\frac{7}{16}$

    (d) $\frac{1}{8}$

2. If $\frac{p}{q}$ is a rational number, then q cannot be:

    (a) 1

    (b) -1

    (c) 0

    (d) Any prime number

3. The sum of $\frac{-3}{4}$ and its reciprocal is:

    (a) $\frac{-25}{12}$

    (b) $\frac{25}{12}$

    (c) 0

    (d) 1

4. Multiplicative inverse of 0 is:

    (a) 0

    (b) 1

    (c) -1

    (d) Does not exist

5. A rational number $\frac{x}{y}$ is in standard form if y is positive and gcd(x, y) is:

(a) 0

(b) 1

(c) x

(d) y

6. Which is greater: $\frac{-4}{5}$ or $\frac{-3}{4}$?

   (a) $\frac{-4}{5}$

   (b) $\frac{-3}{4}$

   (c) They are equal

   (d) Cannot compare

7. Simplify: $\left(\frac{-2}{5}\right)^{-1} \div \frac{5}{2}$

   (a) 1

   (b) -1

   (c) $\frac{-4}{25}$

   (d) $\frac{-25}{4}$

8. Rational numbers are closed under which operation?

   (a) Addition only

   (b) Addition and Multiplication

   (c) Addition, Subtraction, and Multiplication

   (d) All four operations

9. To represent $\frac{8}{3}$ on a number line, each unit is divided into how many equal parts?

   (a) 8

   (b) 3

   (c) 11

   (d) 5

10. If $x = \frac{-4}{9}$, then $-(-x)$ is:

   (a) $\frac{4}{9}$

   (b) $\frac{-4}{9}$

   (c) $\frac{9}{4}$

   (d) $\frac{-9}{4}$

11. Find the value of n such that $\frac{n}{-5} = \frac{21}{15}$.

   (a) 7

   (b) -7

   (c) 3

   (d) -3

12. The distance between $\frac{1}{2}$ and $\frac{-1}{2}$ on the number line is:

   (a) 0

   (b) 1 unit

   (c) 1/2 unit

   (d) 2 units

13. Find the product of the additive inverse of 2 and multiplicative inverse of $\frac{1}{2}$.

   (a) 1

   (b) -1

   (c) -4

   (d) 4

14. The additive identity for rational numbers is:

   (a) 1

   (b) -1

   (c) 0

(d) The number itself

15. What is the average of $\frac{1}{3}$ and $\frac{1}{5}$?

    (a) $\frac{2}{15}$

    (b) $\frac{4}{15}$

    (c) $\frac{8}{15}$

    (d) $\frac{1}{4}$