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 1

Code: 2026/RationalNumbers/Class7/01

1. If the product of two rational numbers is $-\frac{16}{25}$ and one of the numbers is $\frac{4}{5}$, find the other number.

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

   (b) $\frac{4}{5}$

   (c) $-\frac{16}{5}$

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

2. Which of the following is the standard form of $\frac{-144}{252}$?

   (a) $\frac{-4}{7}$

   (b) $\frac{-12}{21}$

   (c) $\frac{4}{-7}$

   (d) $\frac{-2}{3}$

3. Between any two distinct rational numbers, how many rational numbers exist?

   (a) None

   (b) Only one

   (c) Exactly ten

   (d) Infinitely many

4. What should be added to $\frac{-5}{8}$ to get $\frac{5}{9}$?

   (a) $\frac{85}{72}$

   (b) $\frac{5}{72}$

   (c) $\frac{-85}{72}$

   (d) $\frac{1}{72}$

5. The additive inverse of the multiplicative inverse of $\frac{-3}{4}$ is:

(a) $\frac{4}{3}$

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

(c) $\frac{3}{4}$

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

6. Evaluate: $(\frac{2}{3} \times \frac{-5}{7}) + (\frac{2}{3} \times \frac{-2}{7})$

(a) $\frac{2}{3}$

(b) $\frac{-2}{3}$

(c) $\frac{14}{21}$

(d) 0

7. Which property is illustrated by $a \times (b + c) = a \times b + a \times c$?

(a) Associative

(b) Commutative

(c) Distributive

(d) Closure

8. A rational number $\frac{p}{q}$ is greater than $\frac{r}{s}$ if:

(a) $ps > qr$

(b) $ps < qr$

(c) $p + s > r + q$

(d) $pq > rs$

9. The value of $(-1)^{-1}$ is:

(a) 1

(b) -1

(c) 0

(d) Not defined

10. Express $\frac{3}{4}$ as a rational number with denominator 44.

(a) $\frac{30}{44}$

(b) $\frac{33}{44}$

(c) $\frac{12}{44}$

(d) $\frac{3}{44}$

11. What is the reciprocal of the sum of $\frac{2}{3}$ and $\frac{5}{6}$?

(a) $\frac{7}{6}$

(b) $\frac{3}{2}$

(c) $\frac{2}{3}$

(d) $\frac{6}{9}$

12. If $x = \frac{1}{3}$ and $y = \frac{6}{7}$, then $(x - y)^{-1}$ is:

(a) $\frac{-21}{11}$

(b) $\frac{11}{21}$

(c) $\frac{-11}{21}$

(d) $\frac{21}{11}$

13. On a number line, $\frac{-7}{4}$ lies to the:

(a) Right of 0

(b) Left of 0

(c) On 0

(d) Right of 1

14. The sum of a rational number and its additive inverse is:

(a) 1

(b) 0

(c) The number itself

(d) -1

15. Find the value of x if $\frac{-3}{7} = \frac{x}{28}$.

(a) -12

(b) 12

(c) -9

(d) 6