Subject: - Mathematics **TEST PAPER** **CBSE-7th**

Topic: - Rational Numbers **Time: - 60mins, M.M:-25**

(SECTION A – 1 MARK)

1. Every integer is a rational number with denominator: -

a) 0 b) -1 c) 1 d) None of these

2. Multiplicative inverse of $\frac{0}{-5}$ is: -

a) $\frac{0}{-5}$ b) -5 c) $\frac{5}{1}$ d) Not defined

3. What is the product of $-6\frac{1}{3}$ and $2\frac{3}{4}$.

a) -12 b) 24 c) $-12\frac{1}{4}$ d) $-17\frac{5}{12}$

4. $\frac{2}{3} - \frac{3}{4}$ is not equal to: -

a) $\frac{-1}{12}$ b) $\frac{-3}{4} + \frac{-2}{-3}$ c) $\frac{-3}{4} - \left(\frac{2}{-3}\right)$ d) $\frac{3}{4} + \left(\frac{-2}{3}\right)$

5. Evaluate: - $\frac{3}{7} - \frac{1}{3} \div \frac{2}{9} + \frac{5}{6}$

a) $\frac{12}{133}$ b) $\frac{-5}{21}$ c) $1\frac{71}{378}$ d) $\frac{15}{133}$

(SCTION B – 2 MARKS)

1. Which of the following rational numbers are negative?

a) $\frac{-3}{7}$, $\frac{-5}{-8}$, $\frac{9}{-83}$, $\frac{-115}{-197}$

2. Express $\frac{168}{-294}$ as a rational number with denominator -49?

3. $\frac{-5}{7} = \frac{}{35} = \frac{}{49}$

(SECTION C – 3 MARKS)

1. Arrange in ascending order: $-\frac{3}{5}$, $\frac{-17}{-30}$, $\frac{8}{-15}$, $\frac{-7}{10}$

2. Evaluate: - a) $\frac{-7}{12} + \frac{13}{-24} + \frac{-29}{-36} + 5$

(SECTION D – 4 MARKS)

1. List five rational numbers between $\frac{-4}{5}$ and $\frac{-2}{3}$.

2. What should be added to $\left(\frac{1}{-2} - \frac{3}{4} \ of \ \frac{-8}{15}\right)$ so that the sum is the product of $\frac{-7}{50}$ and $1\frac{1}{14}$?

OR

Simplify and express the result in the form of a rational number: -

a) $\left(\frac{3}{11} \times \frac{2}{9}\right) + \left(\frac{-6}{21} \div \frac{1}{-42}\right) - \left(-1\frac{1}{3} \times \frac{9}{24}\right) - \left[\frac{-2}{7} \times (-21)\right]$