

LOYOLA SCHOOL, BHUBANESWAR

First Class Evaluation – July 2025

Class: VIII

Subject: Maths

F.M.= 20

Time: 40mins

I. Write only answer :-

[1x5=5]

1. What is the sum of the additive inverse and multiplicative inverse of  $\frac{4}{5}$  ?
2. The sum of two rational numbers is 9. If one of them is  $5\frac{3}{8}$ , the other is \_\_\_\_\_
3. The value of  $7^0 \times (4)^{-1} \div (2)^{-4}$  is \_\_\_\_\_
4. The value of  $\frac{1}{(7)^{-2}}$  is \_\_\_\_\_
5. The product of  $(10)^5$  and  $(10)^{-10}$  is \_\_\_\_\_

II. Write as directed with steps :-

[2x6=12]

1. Represent  $-\frac{3}{5}$  and  $\frac{5}{3}$  on the same number line.
2. Evaluate  $[(\frac{1}{3})^{-1} - (\frac{1}{4})^{-1}]^{-1}$
3. Insert 4 rational numbers between  $-\frac{5}{7}$  and  $-\frac{2}{5}$ .
4. Find the value of n if  $\frac{9^n \times 3^5 \times (27)^3}{3 \times (81)^4} = 27$
5. The product of two rational numbers is  $-\frac{25}{49}$ . If one of the numbers is  $\frac{5}{8}$ , find the other.
6. Simplify  $(\frac{81}{16})^{-\frac{3}{4}} \times [(\frac{25}{9})^{-\frac{3}{2}} \div (\frac{5}{2})^{-3}]$

III. Answer any one of the following with necessary steps-

[3]

1. Find the value of  $(\frac{x^a}{x^b})^c \times (\frac{x^b}{x^c})^a \times (\frac{x^c}{x^a})^b$
2. m and n are two rational numbers such that  $m \times n = \frac{-25}{9}$ 
  - (i) if  $m = \frac{5}{3}$ , find n .
  - (ii) if  $n = \frac{-10}{9}$ , find m .

\*\*\*\*\*ALL THE BEST\*\*\*\*\*