**LOYOLA SCHOOL, BHUBANESWAR**

**Second Class Evaluation - November 2025**

**Class: VIII Subject: Mathematics F.M.= 20 Time: 40mins**

1. Choose the correct answer. **[3]**

   (a) The value of $\sqrt[3]{968} \times \sqrt[3]{1375}$ =

   (i) 55 (ii) 11 (iii) 110 (iv) 220

   (b) Two numbers are in the ratio 5:4. If the difference of their cubes is 61; the numbers are

   (i) 5 and 4 (ii) 25 and 16 (iii) 10 and 18 (iv) None of these

   (c) By selling 10 articles, a man gains equal to cost price of 2 articles, the profit made is :

   (i) 40% (ii) 20% (iii) 25% (iv) 50%

2. (a) What is the least number by which 6750 should be divided so that the quotient is a perfect cube? **[2]**

   (b) Find the cube root of $-9.261$ by factorization method. **[2]**

   (c) A man sold his bicycle for ₹405 losing one-tenth of its cost price. Find (i) its cost price (ii) the loss percent **[2]**

   (d) Find the single discount (as percent) equivalent to successive discounts of 60% and 80% **[2]**

3. (a) Three numbers are in the ratio 1: 2 : 3. The sum of their cubes is 288. Find the numbers. **[3]**

   (b) Thirty articles are bought at ₹450 each. If one-third of these articles are sold at 6% loss, at what price must each of the remaining articles be sold in order to make a profit of 10% on the whole? **[3]**

   (c) Two shopkeepers printed an article at the same price. The first shopkeeper allows 25% discount and the second shopkeeper allows two successive discounts of 15% and 10%, which is the better offer (i) for customer (ii) for shopkeeper? **[3]**

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