GREENLAWNS SCHOOL, WORLI MATHEMATICS

Marks: 40 STD: VII Date: 01/10/2020 Time: 1hrs 15min **Question 1** Simplify: $(-9) - [(-5) - \{11 - (8 - \overline{5} - 2)\}]$. a. [3] Evaluate $\frac{-13}{8} + \frac{7}{16} + \frac{-3}{4}$ b. [3] Simplify: i. $\frac{-16}{9} \times \frac{12}{-5}$ ii. $\frac{-27}{32} \div \frac{-9}{16}$ [4] C. **Question 2** Simplify following expression and express as rational number. a. $10^2 \, X \, 15^3$ [3] $2^2 \times 3 \times 5^5 \times 6^4$ An ore contains 15% of iron. How much ore is required to get 18 kg of iron? b. [3] Find the value of x such that $\left(\frac{3}{7}\right)^3 \times \left(\frac{3}{7}\right)^{-8} = \left(\frac{3}{7}\right)^{2x+3}$ i. [2] C. Simplify: $\left| \left\{ \left(\frac{-1}{3} \right)^{-2} \right\}^{-1} \right|^{-2}$ [2] **Question 3** a. Rashmi bought a purse for Rs. 720 and sold it for Rs. 660. Find her loss or gain per cent. [3] Find the simple interest and amount on Rs.8400 for 4 years at 8% per annum. b. [3] Convert the following reoccurring fractions into vulgar fraction. C. i. 8.0 ii. 2.143 [4] **Question 4** By selling cow for Rs.14250, a former suffer a loss of Rs. 750. Find the percent of loss. a. [3] In what time will Rs. 3600 amount to Rs. 4320 at 4% per annum simple interest. b. [3] Represent fractions $\frac{-12}{5}$ and $\frac{22}{7}$ on separate number line.

Express $\frac{729}{64}$ in exponential form

[2]

[2]

C.

ii.