# GREENLAWNS SCHOOL, WORLI <br> MATHEMATICS 

STD: VII

## Question 1

a. Simplify: $(-9)-[(-5)-\{11-(8-\overline{5-2})\}]$.
b. Evaluate $\frac{-13}{8}+\frac{7}{16}+\frac{-3}{4}$
[3]
c. Simplify: i. $\frac{-16}{9} \times \frac{12}{-5} \quad$ ii. $\frac{-27}{32} \div \frac{-9}{16}$
[4]

## Question 2

a. Simplify following expression and express as rational number.

$$
\begin{equation*}
\frac{10^{2} \times 15^{3}}{2^{2} \times 3 \times 5^{5} \times 6^{4}} \tag{3}
\end{equation*}
$$

b. An ore contains $15 \%$ of iron. How much ore is required to get 18 kg of iron?
[3]
c. i. Find the value of $x$ such that $\left(\frac{3}{7}\right)^{3} \times\left(\frac{3}{7}\right)^{-8}=\left(\frac{3}{7}\right)^{2 x+3}$
ii. Simplify: $\left\lfloor\left\{\left(\frac{-1}{3}\right)^{-2}\right\}^{-1}\right]^{-2}$
[2]

## Question 3

a. Rashmi bought a purse for Rs. 720 and sold it for Rs. 660. Find her loss or gain per cent.
b. Find the simple interest and amount on Rs. 8400 for 4 years at $8 \%$ per annum.
c. Convert the following reoccurring fractions into vulgar fraction.
i. $\quad 0 . \overline{8}$
ii. $\quad 2.1 \overline{43}$
[4]

## Question 4

a. By selling cow for Rs.14250, a former suffer a loss of Rs. 750. Find the percent of loss.
b. In what time will Rs. 3600 amount to Rs. 4320 at $4 \%$ per annum simple interest.
c. i. Represent fractions $\frac{-12}{5}$ and $\frac{22}{7}$ on separate number line.
ii. Express $\frac{729}{64}$ in exponential form

