Half Yearly Examination – 2

Class – 7   **Full Mark: 50**

                                                          Time: 1 Hour 30 minutes

Section – A, attempt all the questions

1.   **[3 + 3 + 4]**

a) Simplify {−23 − (−34)} + {−15 + (−25)}

b) Simplify $(1 \div 2\frac{3}{4})$ + $(1 \div 3\frac{1}{2})$.

c) Prakash buys 3 liters of kerosene and 2 liters of petrol. If the kerosene costs Rs. 132.3 per liter and diesel costs Rs. 282.26, then how much does Prakash spend on kerosene and petrol?

2.   **[3 + 3 + 4]**

a) Express $\frac{-24}{228}$ in standard form.

b) Evaluate $(\frac{32}{15} + \frac{8}{5}) \div (\frac{32}{15} + \frac{8}{5})$.

c) A train covers a distance of 353.6 km in 3.2 hours. What is the distance covered by the train in 1 hour?

Section – B, attempt any three questions

3.   **[3 + 3 + 4]**

a) The sum of two rational number is $\frac{11}{24}$. If one of the numbers is $\frac{3}{8}$, then find the other.

b) The sum of two integers is −10. If one of them is 16, then find the other integer.

c) Simplify 10 − [15 − {11 + 30 ÷ (4 − (−2)}]

4.   **[3 + 3 + 4]**

a) Find the value of 22.356 − 131.6 + 23.5 + 689.4

b) Evaluate $3^8 \times 3^{92} − 3^{12} \times 3^{88}$.

c) Pradeep bought a motor bike at a price Rs. 54000. He paid $\frac{1}{5}$ of the price in cash and the rest amount in 10 equal instalments. Find the amount he is going to pay every month.

5.   **[3 + 3 + 4]**

a) A box holds 78.5 kgs of Apples. how many such boxes will contain 392.5 kgs of Apples?

b) By what number should $12\frac{3}{5}$ be divided to get $3\frac{2}{3}$.

c) Find the value of $7 \times 10^5 + 6 \times 10^3 + 2 \times 10^2 + 5 \times 10^0$.

6.   **[3 + 3 + 4]**

a) Find the difference between 945.32 and 465.8.

b) The product of two numbers is $15\frac{5}{6}$. If one of the number is $2\frac{1}{2}$, then what is the other number?

c) simplify $12 - [72 \div \{(-4) - 14\}]$.