Half Yearly Examination – 3

Class – 6   **Full Mark: 50**

Time: 1 Hour 30MINUTES

Section – A, attempt all the questions

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

a) Q = {x | x is a month of the year}, find the cardinal of the set Q.

b) Prakash's house is $\frac{3}{4}$ km from his school. He walked some distance and then took a bus for $\frac{1}{2}$ km to reach the school. How far did he walk?

c) How many millions make a billion?

d) Cost of one bicycle is Rs. 12350. Find the cost 129 similar bicycle.

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

a) A motorbike moves at a constant speed of 86 km per hour. How much distance it will cover in 24 hours?

b) Subtract −4305 from |(−2508) + (−3502)|.

c) Rewrite the following set in Roster form.

 A = {x | x is an even number greater than 10 and less than 20}

Section – B, attempt any three questions

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

a) Sum of two integers is −45. If one of the integers is 25 then what is the other integer?

b) A set of A of all 2-digit numbers, the sum of whose digits is 8.

c) Add 496.7 to 58.08 and subtract it from the sum of 520.75 and 225.65.

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

a) Find the sum of −25, 10, −20 and −50.

b) What least number must be subtracted from 13605 to get a number exactly divisible by 85?

c) If 0.75 of a number is 7500, then what is $\frac{7}{8}$ of the number?

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

a) Write the following set in the set builder form.

A = {January, March, May, July, August, October, December} .

b) The population of a town was 75000. In one year, it increased by 2665 due to new births. However, 1429 persons left the town during the year. What was the population of the town at the end of the year?

c) What is the value of 12.006 + 52 + 0.72 rounded to the nearest tenths?

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

a) Write the following sets in a Roster form.

Q = {x | x is prime factor of 30}.

b) A shopkeeper purchased $3\frac{3}{5}$ liters of cooking oil on Monday, $3\frac{3}{2}$ liters on Tuesday and $2\frac{3}{10}$ liters on Wednesday. How much oil did he purchase on the three days?

c) Find the product of the largest 4-digit number and the largest 5-digit number.