

Half Yearly Examination – 1

Class – 6

Full Mark: 50

Time: 1 Hour 30MINUTES

Section – A, attempt all the questions

1.

[3 + 3 + 1 + 3]

a) What is the least 6-digit number exactly divisible by 72?

b) Simplify $7 - [15 - \{-3 - 6(5 \text{ of } -6)\}]$ c) How many positive integers are there in between -5 and 5 .d) A mathematics test was given to a class of 40 students. $\frac{4}{5}$ of the students gave all correct answers. How many students made some mistakes?

2.

[3 + 3 + 4]a) In $\frac{2x}{3} - 2\frac{1}{2} = 3\frac{1}{2}$, find the value of x .b) $545 \div 545 - 545 \div 545 = \underline{\hspace{2cm}}$.c) Simplify: $200 - 5 [25 - \{15 + 2 - 12\}]$

Section – B, attempt any three questions

3.

[3 + 3 + 4]a) Temperature at the foot of the mountain is 10°C . It fell down by 15°C at the top of the mountain. What is the temperature at the top of the mountain?

b) What is the largest 4-digit number that is divisible by 25?

c) The length of a rectangular field is 6 m more than its breadth and the perimeter of the field is 84 m. Find the length and breadth of the field.

4.

[3 + 3 + 4]a) Simplify: $83265 \times 169 - 83265 \times 69$ b) Raj had $6\frac{7}{12}$ liters of fuel in his motor bike in the morning. In the evening he had only $2\frac{2}{5}$ liters of fuel in the tank. How much fuel was used by Raj during the day?

c) A number is multiplied by 6 and 12 is added to the product. If the result is 72, then find the number.

5.

[3 + 3 + 4]

- a) One integer is greater than the other by 6. If one number is -20 , then find the other number.
- b) Find the difference between the smallest number of 7-digits and the largest number of 5-digits.
- c) Simplify: $2\frac{3}{5} + 1\frac{7}{10} - 3\frac{2}{15}$

6.

[3 + 3 + 4]

- a) The product of two numbers is 155952. If one number is 342, find the other number.
- b) Weight of three books is $2\frac{3}{4}$ kg, $3\frac{5}{6}$ kg and $2\frac{3}{8}$ kg. Find the total weight of all the three books.
- c) Find the value of the below mentioned polynomial when $y = 3$
 $3y^2 + 2y + 5$