

1<sup>st</sup> SEMESTER EXAMINATION, 2022 -2023

CLASS 7

TIME : 1½ HRS.

MATHEMATICS  
SECTION - A

MARKS 25

(Attempt all questions)

I.

- a) Solve  $97 \times 10$  by using property. (1)
- b) Convert  $5\frac{3}{8}$  into decimal fraction and write its decimal form. (2)
- c) Find the angle which is four times of its complement. (2)

II.

- a)  $(125)^x \times (32)^y = 5^x \times 2^y$ . Find the value of x and y. (1)
- b) Simplify  $5\frac{3}{4} + 15\frac{3}{4} + 2\frac{2}{35} + 1\frac{11}{25}$ . (2)
- c) Find the simple interest and amount for following. (2)
- P = ₹12000 R = 7% , T = 3 Years.

Section - B

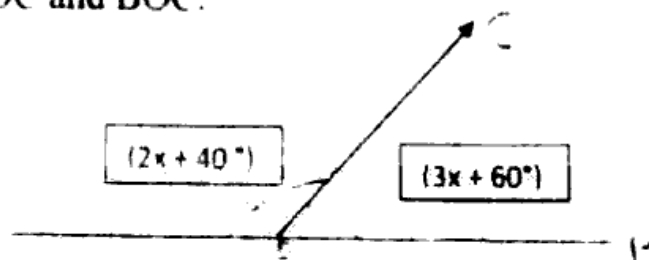
(Attempt any 3 questions)

III.

- a) Which rational number is greater  $-5\frac{5}{9}$  or  $-5\frac{7}{12}$ . (1)
- b) Find the complement and supplement of  $37^\circ$ ,  $25'$  and  $42''$ . (2)
- c) Product of two integers is  $-90$  if one of them is 6. Find the other integer and multiply the result with same no. (2)

IV.

- a) Find the sum which will amount to ₹700 in 5 years at 8% per annum. (1)
- b) Find the angle AOC and BOC. (2)



- a) The ratio between two number is 3:4 if their LCM is 240. Find the number. (2)

V.

a) Find the fourth proportional of 5, 9 and 45.

(2)

b) Simplify  $2 \times 5 - [8 - \{11 + 30 \div (4 - 7 - 5)\}]$

(2)

c) Evaluate  $\frac{64 \times (-8)^2 \times 4^b}{16^3 \times 4^5}$

VI.

a) Insert four rational number between  $\frac{-5}{12}$  and  $\frac{5}{6}$

(1)

b) Evaluate if  $A = 247.68$  and  $B = -63.47$ .

(2)

Find  $A-B$  and  $B-A$ .

c) Simplify  $15^n \times 25^{n-1} \div (15^{n-1} \times 25^{n-1})$

(2)

VII.

a) Evaluate  $(-\frac{13}{7} \times -\frac{35}{39}) - (-\frac{7}{45} \times \frac{9}{14})$

(1)

b) Divide ₹520 among A, B, C in the ration  $\frac{1}{2} : \frac{1}{3} : \frac{1}{4}$

(2)

c) Find each angle shown in the figure.

(2)

