

**Chapter: 5**

**Q.1 Choose the correct alternatives. (3)**

- 1) The total cost of 8 buckets and 5 mugs is Rs. 92 and total cost of 5 buckets and 8 mugs is Rs. 77. Find the cost of 2 mugs and 3 buckets.  
a. Rs. 53      b. Rs. 35      c. Rs. 105      d. Rs. 135
- 2) Select numbers such that their sum is 30 and difference is 4. The numbers are .....  
a. 19 and 21      b. 19 and 11      c. 17 and 13      d. 15 and 15
- 3) Ajay is younger than Vijay by 5 years. Sum of their ages is 25 years. What is Ajay's age ?  
a. 20      b. 15      c. 10      d. 5

**Q.2 Solve the following question. (Any Two) (4)**

- 1) Find the value of Y in the given equation when  $x = 1$ .  
 $8x + 3y = 11$
- 2) By equating coefficients of variables, Solve the following equations.  $4x + y = 34$  ;  $x + 4y = 16$
- 3) Solve the following simultaneous equations.  $2x + y = 5$  ;  $3x - y = 5$

**Q.3 Solve the following question. (Any Two) (6)**

- 1) Sum of the ages of mother and son is 45 years, If son's age is subtracted from twice of mother's age then we get answer 54. Find the ages of mother's and son.
- 2) four year ago Marina was three times old as her daughter. Six years from now the mother will be twice as old as her daughter. Find their present ages.
- 3) Find the fraction which becomes  $\frac{1}{2}$  when the denominator is increased by 4 and is equal to  $\frac{1}{8}$  when the numerator is decreased by 5.

**Q.4 Solve the following question. (Any One) (4)**

- 1) The total cost of 6 books and 7 pens is 79 rupees and the total cost of 7 books and 5 pens is 77 rupees. Find the cost of 1 book and 2 pens.
- 2) The price of 3 chairs and 2 tables is 4500 rupees and price of 5 chairs and 3 tables is 7000, Then find price of 2 chairs and 2 tables

**Q.5 Solve the following question. (Any One) (3)**

- 1) Solve the following sets of simultaneous equations  $2x + 3y + 4 = 0$  ;  $x - 5y = 11$

**2) Solve Simultaneously equations**

$$2x + 3y = 9$$

$$3x + 4y = 5$$

