

Chapter: 5 to 6

Q.1 Choose the correct alternatives. (3)

- 1) When 5 is subtracted from length and breadth of the rectangle, perimeter become 26. What is the mathematical form of the statement ?
a. $x - y = 8$ b. $x + y = 8$ c. $x + y = 23$ d. $2x + y = 21$
- 2) For different types of investments what is the maximum permissible amount under section 80C of income tax?
a. 1,50,000 rupees b. 2,50,000 rupees
c. 1,00,000 rupees d. 2,00,000 rupees
- 3) The total cost of 8 buckets and 5 mug 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

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

- 1) Mr. Shaikh invested Rs. 4,00,000 in a glass industry. After 2 years he received Rs. 5,20,000 from the industry. Putting aside the original investment, he invested his gains in a fixed deposit and in shares in the ratio 3 : 2. How much amount did he invested originally in each of the schemes ?
- 2) Compute the net income tax payable in case of Mr. Kadam, who is 35 years age having taxable income of Rs. 2,70,000 in F.Y. 2017-18.
- 3) Solve the following simultaneous equations. $2x + y = 5$; $3x - y = 5$

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

- 1) Solve Simultaneous equations
 $x + y = 5.5$, $x - y = 0.9$
- 2) Mr. Sayyad kept Rs. 40,000 in a bank at 8% compound interest for 2 years. Mr. Fernandes invested Rs. 1,20,000 in a mutual fund for 2 years. After 2 years, Mr. Fernandes got Rs. 1,92,000. Whose investment turned out to be more profitable?
- 3) Solve the following simultaneous equations. $x - 2y = -2$; $x + 2y = 10$

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

- 1) Mr. Mhatre is 50 years old. His gross total income is Rs. 12,00,000. He has invested in the following amounts in different schemes.
- (i) Insurance premium : Rs. 90,000 (ii) Investment in provident fund : Rs. 25,000
(iii) Investment in PPF : Rs. 15,000 (iv) National Savings Certificate : Rs. 20,000
- Find out the permissible deductions, taxable income, and the income tax payable.

- 2) The ratio of incomes of two persons is 9 : 7. The ratio of their expenses is 4 : 3 Every persons saves rupees 200, find their income of each.

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

(3)

- 1) The ratio of Mr. Anil's monthly income to expenditure is 5 : 4. For Mr. Aman the same figure is 3 : 2. Also, 4% of Aman's monthly income is equal to 7% of Anil's monthly income. If Anil's monthly expenditure is 96,00 rupees.
- (i) Find Aman's annual income. (ii) Savings made by Mr. Anil and Mr. Aman.
- 2) The area of a rectangle gets reduced by 9 sq units, if its length is reduced by 5 units and the breadth is increased by 3 units. If the length is increased by 3 units and the breadth by 2 units, the area is increased by 67 sq units. Find the length and breadth of rectangle.

