



( 2 )

**Unit-II**

2. (a) The listed price of a cloth of Andhra Khadi Bhandar is ₹ 380 on which regular discount is 20%. Due to partial damage in cloth an additional discount of 20% is allowed. For how much money the buyer paid to purchase it ?
- (b) An agent gets 3% commission on the full sale and 2% bonus on the amount of the sale exceeding ₹ 20,000. He sold goods amounting to ₹ 35,000. Calculate his commission, bonus and total remuneration.

**OR**

A man purchases 200 kg rice at the rate of ₹ 10 per kg. He pays ₹ 200 as cartage and ₹ 100 as octroi. He sells the whole rice at 10% gain. Find the selling price per kg of rice.

**Unit-III**

3. Solve the following equations by elimination method :

$$2x + y = 8$$

$$2x - y = 4$$

**OR**

Explain Fundamental laws of logarithm.

( 3 )

**Unit-IV**

4. (a) Two numbers are in the ratio of 5 : 8 if 9 be added to each they are in the ratio 8 : 11. Find the numbers.
- (b) 12 carpenters make 18 chairs in a certain time. How many chairs will be made by 10 carpenters in the same time ?

**OR**

- (a) Ram purchased 13 bags at the rate of ₹ 50 per bag, 15 bags at the rate of ₹ 60 per bag and 12 bags at the rate of 65 per bag. Find the average purchase price of per bag.
- (b) From the following data about the wages of 5 workers, find the average wage :
- ₹ : 80, 70, 120, 100, 110

**Unit-V**

5. Ajay obtained a loan of ₹ 4,000 at an interest rate of 6% p.a. He immediately rent ₹ 2,500 at an interest rate of 9% p.a. to Kiran and the balance at 12% p.a. to Soham. After three years he collected the amounts due to them and repaid his loan. Find his gain.

**OR**

( 4 )

If interest is payable quarterly, find the compound interest on ₹ 1500 @ 12% per annum for one year.

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