## Lesson 4

## Answer to each of the following questions

- 1. What is meant by Price Elasticity of Demand? How would you measure it?
- 2. What do you mean by Price Elasticity of Demand? Examine the factors on (Delhi 2004, Foreign 2005) which price elasticity of demand depends.
- 3. Explain with the help of diagram the concepts of Elasticity of Demand? What is
- 4. What do you understand by price elasticity of demand? Under what conditions elasticity is equal to (a) Zero (b) Unitary (c) Less than Unitary (d) More than Unitary.

## NUMERICAL PROBLEMS

- 1. The price elasticity is 0.5. The % change in quantity is 5. What is the % change in price?
- 2. The price elasticity is 2. The % change in price is equal to 5. Find the % change in quantity.
- 3. The price of commodity increases by 5% the demand of commodity falls by 8%. What is the elasticity of demand?
- 4. The price of a product decreases by 7% the total expenditure on it has gone up by 3.5%. What can be the elasticity of demand?
- 5. The price of a product goes up by 8%. The total expenditure on the product goes up by 8%. What is elasticity of demand?
- 6. The quantity demanded of a commodity at a price of Rs. 10 per unit is 40 units. Its price elasticity of demand is -2. Its price falls by Rs. 2 per unit. Calculate its quantity demanded at the new price.
- 7. The price elasticity of demand is 2. The % change in price is equal to 5. Find out the % change in quantity.
- 8. The price of a commodity goes up by 8% and total expenditure of a family goes up by 8%. Find out the price elasticity of demand of commodity.
- 9. A consumer spends Rs. 250 on a good when its price is Rs. 5 per unit. When the price rises to Rs. 6 per unit, he spends Rs. 240. Calculate price elasticity by percentage method.
- 10. At a price of Rs. 4 per unit, a consumer buys 50 units of a good. The price elasticity of demand is -2. How many units will the consumer buy at Rs. 3 per
- 11. At a price Rs. 6 per unit a consumer buys 50 units of a good. The price elasticity of demand is -2. At what price will the consumer buy 100 units?
- 12. At a price of Rs. 8 per unit a consumer buys 40 units of a good. The price elasticity of demand is -1. Find out the price at which the consumer will buy 60 units.
- 13. The quantity demanded of a commodity at a price of Rs. 8 per unit is 600 units. Its price falls by 25% and quantity demanded rises by 120 units. Calculate its price elasticity of demand.
- 14. At a price of Rs. 50 per unit the quantity demanded of a commodity is 1000 units when its price falls by 10 per cent its quantity demanded rises to 1080 units.
  - Calculate its price elasticity of demand.
- 15. A consumer spends Rs. 70 on a good when its price is Rs. 5 per unit. When price falls to Rs. 4 per unit, he spends Rs. 84. Calculate the price elasticity b