

Assignment-1

Sec. A

- ① Demand refers to the quantity of a good or service that consumers are willing and able to purchase at various prices during a specific period.

Exn: If the price of sugar decreases from 50/- kg to 40/- kg and consumers buy more sugar, this increase in quantity purchased reflects demand.

② Substitute Goods.

Complementary Goods

- Goods that can be used in place of each other. → Exn: Tea and Coffee. If the price of tea increases, demand for coffee increases.
- Goods that are used together to satisfy a need. → Exn: Carb and Petrol. If the price of petrol increases, the demand of cars may decrease.

③ Food

- Clothing
- Water
- medicine
- Shelter

- ④ The law of supply states that, other things being equal, the quantity of a good supplied increases as its price increases, and decreases as its price decreases.

Exn: If the price of tomatoes rises, farmers are likely to supply more tomatoes to maximize profit.

Sec - B

- ① The main factors influencing Price elasticity of demand are:
- Nature of the Good: Necessities have inelastic demand, luxuries have elastic demand.
 - Availability of Substitutes - More substitutes make demand more elastic.
 - Proportion of income spent - Goods that take up a larger proportion of income have more elastic demand.
 - Time Period - Demand is more elastic over a longer period as consumers adjust their behaviour.
 - Habit-forming Goods: Addictive goods have inelastic demand.

- ② The key factors influencing Supply are:

- Price of the Good - Higher prices encourage more supply.
- Cost of Production - Higher production costs reduce supply.
- Technology - Technological improvements increase supply.
- Government Policies - Taxes reduce supply. Subsidies increase supply.

Natural factors: Weather and natural disasters affect supply.

- Number of sellers: More sellers increase market supply.

SOC-C

- Perfectly elastic demand - Any small change in price causes an infinite change in demand ($E = \infty$)
- Perfectly inelastic demand - Demand remains unchanged regardless of price change ($E = 0$)
- Relatively elastic demand - A small price change leads to a large change in demand ($E > 1$).
- Relatively inelastic demand - A large price change causes a small change in demand ($E < 1$)
- Unit-elastic demand - A change in price leads to a proportional change in demand ($E = 1$)

- ARC elasticity measures the average price elasticity over a range of prices.

The formula is

$$Ed = \frac{\frac{Q_2 - Q_1}{Q_2 + Q_1}}{\frac{P_2 - P_1}{P_2 + P_1}}$$

Where

- Q_1, Q_2 = initial and new quantity demanded.
- P_1, P_2 = initial and new price.

Ex If the price of a product rises from 10 to 12 and demand decreases from 100 unit to 80 unit

$$Ed = \frac{\frac{80-100}{80+100}}{\frac{12-10}{12+10}} = \frac{-\frac{20}{180}}{\frac{2}{22}} = -1.22$$

Since the result is greater than 1 (in absolute terms), demand is elastic.