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Elasticity of Demand(H.W)

Definition of eD

Price elasticity of demand (e_D) measures percentage change in the quantity demanded of a good due to a percentage change in its price.

Measurement of Price Elasticity of Demand

en can be calculated as

$$e_{\mathrm{D}} = \frac{\mathrm{Percentage\ change\ in\ demand}}{\mathrm{Percentage\ change\ in\ price}}$$

or

$$e_{\rm D} = -\frac{\Delta Q}{\Delta P} \cdot \frac{P}{Q}$$

There are five degrees of e_D :

- (i) Perfectly inelastic demand ($e_D = 0$)
- (ii) Inelastic demand $(0 < e_D < 1)$
- (iii) Unitary elastic demand ($e_D = 1$)
- (iv) Elastic demand $(1 < e_D < \infty)$
- (v) Perfectly elastic demand ($e_D = \infty$).

Factors affecting eD

The major determinants of price elasticity of demand are:

- (i) Availability of substitutes
- (ii) Income of the consumers
- (iii) Luxuries versus necessities
- (iv) Proportion of total expenditure spent on the product
- (v) Number of uses of the commodity
- (vi) Time period.

Multiple Choice Questions

 Coefficient of elasticity of demand is neg (a) Consumers sometimes buy negative to 	
(b) Price and quantity demanded move in same direction	
(c) Law of demand holds	
(d) The two goods are complementary to	each other
2. E _J =	
-	$P \sim \Delta Q Q$
(a) $\frac{\Delta Q}{\Delta P} \cdot \frac{P}{Q}$ (b) $\frac{\Delta P}{\Delta Q} \cdot \frac{Q}{P}$ (c) $\frac{\Delta P}{\Delta Q} \cdot \frac{Q}{Q}$	$Q = \frac{(d)}{\Delta P} \cdot \frac{\omega}{P}$
3. Demand is elastic when:	
(a) Price level is high	(b) More substitutes are available
(c) Income of the consumer is less	(d) All of the above
4. The absolute value of the coefficient of p	
(a) Zero to infinity	(b) Minus infinity to plus infinity
(c) One to minus infinity	(d) One to infinity
5. $E_d = \infty$ in case of:	(a) One to many
(a) Luxuries	(b) Normal goods
(c) Necessities	(d) Perfect competition
6. $E_d = 0$ in case of:	
(a) Luxuries	(b) Normal goods
(c) Necessities	(d) Essentials
7. Price elasticity of demand of a horizonta (a) Perfectly elastic	al demand curve is called: (b) Perfectly inelastic
(c) Elastic	(d) Inelastic
8. Price elasticity of demand of a vertical d	emand curve is called:
(a) Perfectly elastic	(b) Elastic
(c) Inelastic	(d) Perfectly inelastic
When percentage change in quantity der than demand curve is:	manded is more than the percentage change in price
(a) Flatter	(b) Steeper
(c) Rectangular hyperbola	(d) Horizontal
10. When percentage change is quantity de- demand curve is:	manded is less than the percentage change in price
(a) Flatter	(b) Steeper
(c) Rectangular	(d) Horizontal
11. $E_{d} = 1$ in case of:	
(a) Luxuries	(b) Normal goods
(c) Necessities	(d) Essentials
12. Price elasticity of demand on a linear de	mand curve at the x-axis is equal to:
(a) Zero	(b) One
(c) Infinity	$(d) \ 0 < E_d < 1$
13. Price elasticity of demand on a linear de	mand curve at the y-axis is equal to:
(a) Zero	(b) One
(c) Infinity	$(d) \ 0 < E_J < 1$