

Consumer Demand Supply

Unit - 1

Consumer

(7)

Wants :-

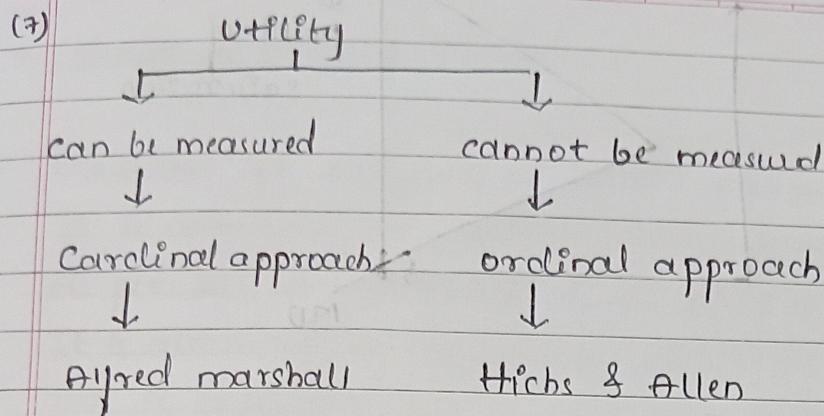
- * Consumer has certain wants.
- * all tastes, desire of human being are called as wants.
- * Wants are
 - (i) alternative
 - (ii) Competitive
 - (iii) Complementary
 - (iv) Subjective
- * All wants cannot be satisfied but maximum wants can be satisfied.
- * Want may change from time to time.

Wants are of 3 types :-

- (1) Necessity
 - Necessity for life → water, shelter and food & clothing.
 - Necessity for efficiency → Good food
 - Conventional necessity → habit
- (2) Comforts → make life more comfortable.
- (3) Luxury → Expensive things.

Utility :-

- (1) Utility is a want satisfying power of a commodity
- (2) Utility ≠ Usefulness
- (3) Utility = anticipated satisfaction.
- (4) Utility is a subjective concept.
- (5) A person can have utility without consumption. eg. gift
- (6) In economics the concept of utility is ethically neutral.



Cardinal approach to utility → Alfred marshall

Marginal utility (M_U)

→ Utility derived by consuming a product is called as marginal utility.

→ Formula = $TU_n - TU_{n-1}$

→ MU is diminishing throughout

→ MU can be +ve, 0, -ve

→ Money is measuring rod of utility

Total utility (T_U)

→ Assuming utility is measurable & additive, sum of all marginal utility is Total utility.

→ $TU = M_U_1 + M_U_2 + \dots + M_U_n$

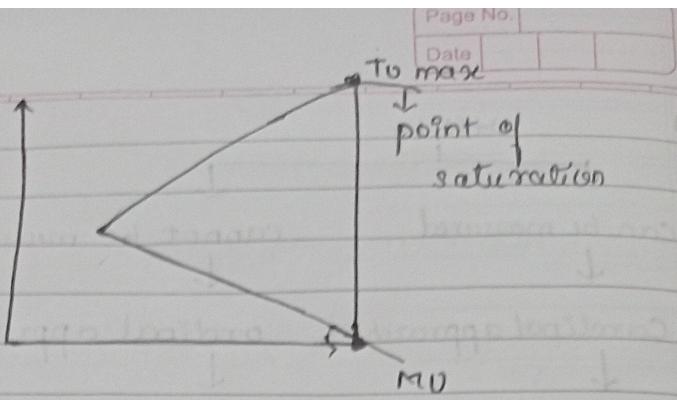
→ Total utility curve is always +ve or declining.

Utility Schedule :- Table showing M_U & T_U derived.

Mangou	Utility	M_U	T_U
1	10	10	10
2	6	6	16
3	3	3	19
4	0	0	19 → point of Saturation.
5	-2	-2	17

Utility curve.

A Geographical representation of utility schedule.



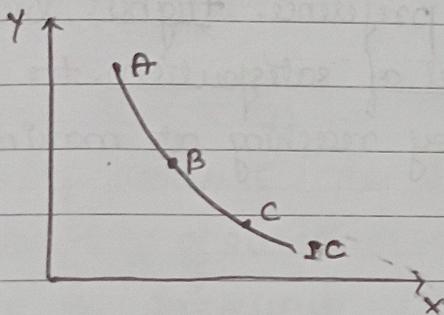
- * MU is diminishing
- * TU is increasing @ diminishing rate.
- * When MU is zero TU is maximum
- * When TU is maximum \rightarrow that point is called point of saturation.
- * MU can be +ve.

Law of diminishing Marginal Utility :- (Alfred Marshall)

- * As consumer increase the consumption of goods his MU decline.
- * So the more he has of a good his utility from that good goes down.
- * Exception to Law of Diminishing Marginal Utility :-
 - (1) Hobbies & rare collection.
 - (2) Abnormal person
 - (3) Bulky / indivisible goods.
- * Assumptions of Law of Diminishing marginal utility :-
 - (1) Goods are Homogeneous (same type)
 - (2) There is a standard unit of consumption (of same quantity)
 - (3) There is continuous consumption.
 - (4) Law is not applicable on precious goods.
 - (5) Law is based on unrealistic assumptions.

Indifference curve (IC) :-

- (1) Proved by Hicks and Allen.
- (2) It is considered as ordinal concept.
- (3) As per IC, all combination provides same level of satisfaction.
- (4) It is also called as isutility curve (or) equal utility curve.
- (5) This is based on law of consumer preference.
- (6) Assumption of IC :-
 - (i) Consumer is rational.
 - (ii) His preference is constant (monotonic consumer preference).
 - (iii) He has power to decide consumer preference.
- (7)



All. A,B,C provide same level of satisfaction.

(8) Properties of IC

- (a) IC cannot intersect each other.
- (b) IC will not touch x or y axis → This will show He is interested in only one product.
- (c) Higher level of IC shows higher level of satisfaction.
- (d) IC curve slopes downwards towards right
↳ Convex in shape.

Goods are substitute



IC is parallel straight line to x-axis

Goods are complementary



IC will be L shaped.

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Budget line :-

- (1) Provides all the attainable combination with budget.
- (2) Also called as price line
- (3) Provide maximum combination of 2 goods achievable in Budget.
- (4) Slope of Budget line $\frac{P_x}{P_y}$

Indifference map :-

Indifference map shows all combination of consumer satisfaction plotted on a graph showing his preference. Highest level of indifference curve shows higher level of satisfaction, he will try to reach the highest level by reaching at maximum point.

How equilibrium is achieved.

→ If consumer reach highest level of satisfaction he is said to achieve equilibrium.

Unit - 2

Demand

- (1) Demand refers to quantity of goods and services that consumer are willing and able to purchase.
- (2) Unless the desire is backed by purchasing power it cannot be said as demand.
- (3) Quantity demanded is always expressed at a given price.

Determinants of Demand :-

- (a) Income of consumer → Income (\uparrow) Demand (\uparrow)
- (b) Price of product → Price (\downarrow) Demand (\uparrow)
- (c) Availability of substitute → Price (\uparrow) Demand (\downarrow)
- (d) Taste & Preference

demonstration

effect
↓

Demand arise by looking the product with someone.

Snob effect

Demand reduces because product becomes common

Hebden effect
↓

costly goods are purchased by status seeking rich people (Black water)

- (e) Population & size of population
- (f) Availability of credit facility

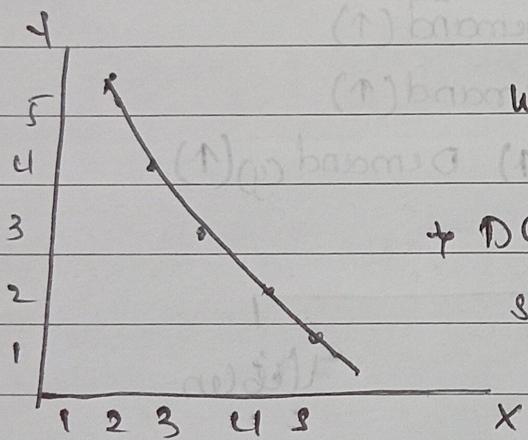
Demand Schedule :-

a table showing price & quantity demanded.

Price	Quantity demanded
5	1
4	2
3	3
2	4
1	5

Demand curve :-

Demand curve is a graphical representation of Demand Schedule.



- + DC is downward sloping towards right showing an inverse relation between price & quantity demanded.
- + DC is -vey sloped.
- + DC is reg rectangular hyperbola curve

→ Individual demand curve is steeper

+ Demand curve is flatter.

Increase (or) Decrease in Demand.

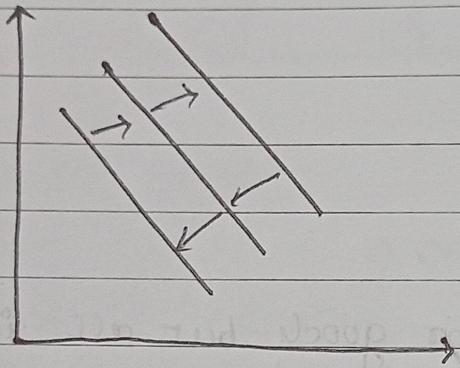
If demand changes because of any factor other than price,

e.g. e.g. Income change

Taste. "

population "

substitute "



Elasticity of Demand :-

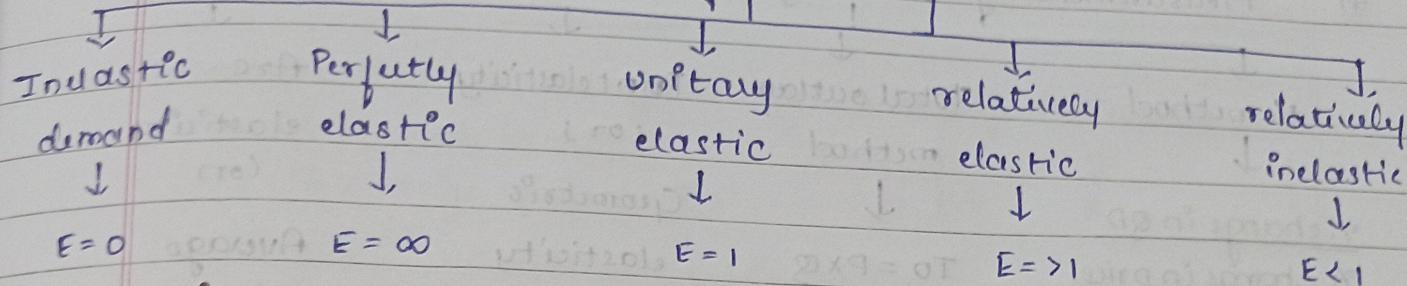
(1) Shows the degree of responsiveness over change in one of the variable on which demand depends.

(2) So there can be

- Price elasticity
- income "
- cross "
- advertisement "

(3) Unless otherwise specified elasticity means price elasticity

Type of Elasticity



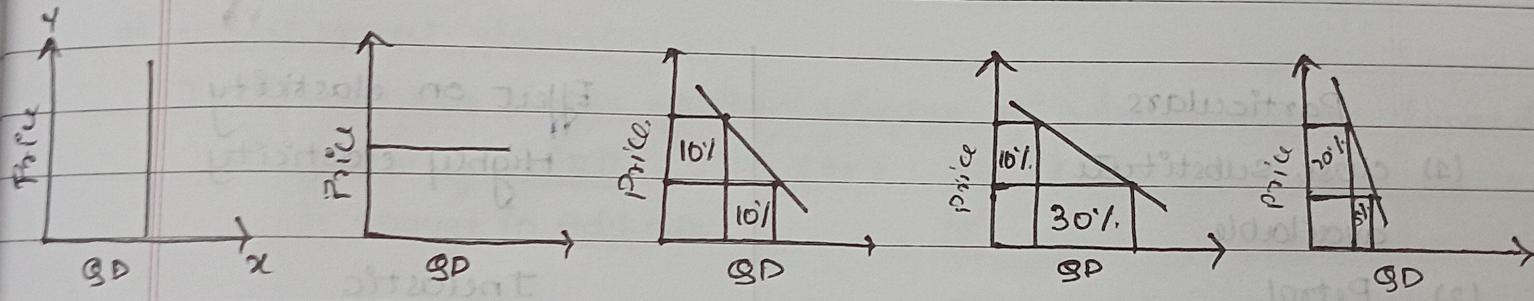
If change in variable does not have any impact on demand

If change in variable has huge impact on demand

If change in variable has equal impact on demand

If change in variable has greater impact on demand

If change in variable has less impact on demand



Curve will be straight parallel to y-axis.

Curve will be parallel to x-axis

Curve will be rectangular hyperbola.

Curve will be flat

Curve will be steeper

Formula for Elasticity (General)

$$\left[\frac{\% \Delta \text{ in } QD}{\% \Delta \text{ in variable}} \quad \text{or} \quad \frac{\Delta Q}{\Delta P} \times \frac{P}{Q} \right]$$

Measurement of elasticity (methods)

% method

Total outlay

Point elasticity

Are

↓

↓

(or)

elasticity
(or)

% change in QD

↓

Geometric

Average

% change in price.

$$TO = P \times Q$$

elasticity

elastic

Lower segment of DC

elastic

Upper segment of DC

$$\frac{q_1 + q_2}{q_1 + q_2} \times \frac{P_1 + P_2}{P_1 - P_2}$$

Particulars

Effect on elasticity

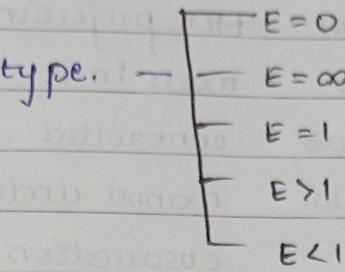
(1) close substitute available	Highly elastic
(2) Petrol	Inelastic
(3) many substitute	more elasticity
(4) spent more on commodity	Highly elastic
(5) Luxury goods.	elastic
(6) Necessity	Inelastic
(7) Product can be used for multiple things.	elastic
(8) Very Expensive	Inelastic
cheap	in
(9) Consumer has habit	Inelastic
(10) Tied goods.	Inelastic.

Income elasticity :-

When the demand changes owing to change in income.

$$= \frac{\% \text{ change in QD}}{\% \text{ change in Income (Y)}} \quad (\text{or}) \quad \frac{\Delta QD}{\Delta Y} \times \frac{Y}{Q}$$

It can be of 5 type. —



Advertisement elasticity :-

It shows the degree of responsiveness of advertisement on demand.

$$= \frac{\% \text{ change in QD}}{\% \text{ change in Advt. exp.}} \quad (\text{or}) \quad \frac{\Delta Q}{\Delta A} \times \frac{A}{Q}$$

Cross elasticity :-

(1) It measures the degree of responsiveness of change in price of one commodity on demand of other commodity.

(2) It arises due to availability of substitute

$$\frac{\% \text{ change in QD of } X}{\% \text{ change in price of } Y} \quad (\text{or}) \quad \frac{\Delta QD_X}{\Delta P_Y} \times \frac{P_Y}{Q_X}$$

Forecasting :-

• Forecasting is predicting a future event.

• Forecasting depend upon a area of operation.

• Type of forecasting → Based on scope

macro level

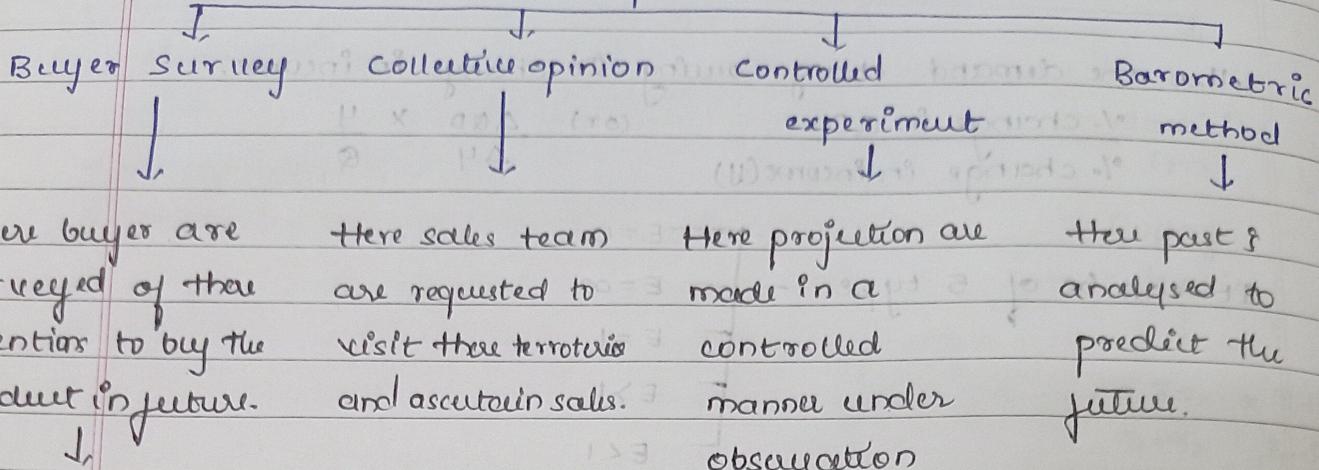
Based on time.

industry level

Long term
Short term.

firm level

Methods of Demand forecasting



There are 3 methods

- (a) Complete survey
- (b) Sample survey
- (c) end user survey

Demand Distinction :-

(a) Producer goods :- which are used for production of other goods
eg. P & M

(b) Consumer goods :- which are used for final consumption
eg. food.

(c) Durable goods :- which do not wear out quickly.
eg. clothes

(d) Non-durable goods :- which cannot be consumed more than once.
eg. milk.

(e) Semi-durable goods :- They have characteristic of durable and non-durable goods
eg. clothes.

f) Derived demand :- The demand arise because of some other goods.
eg. match box for cigarette

(g) autonomous demand :- The demand of product is independent of other goods.

Supply

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Supply refers to quantity of goods supplied at the given price.

Supply has a direct relationship with price.

i.e., if price goes up,

Supply goes up and vice versa.

Determinants of supply

Price of commodity

Technology

Price of related goods

factors of production.

Law of supply

- + If price goes up, Supply goes up, other things being equal.
- + There is direct relationship of price and supply.

Supply schedule.

Table showing price and quantity supplied.

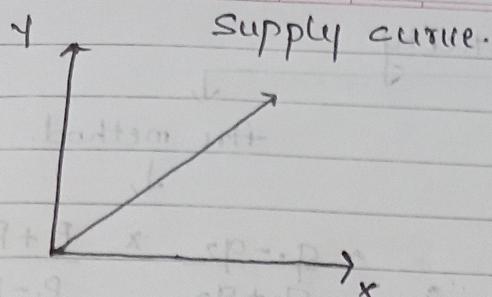
Price	Supply
10	20
20	40
30	60
40	80

Supply curve.

It is a graphical representation of supply schedule.

It is a +ve supply curve.

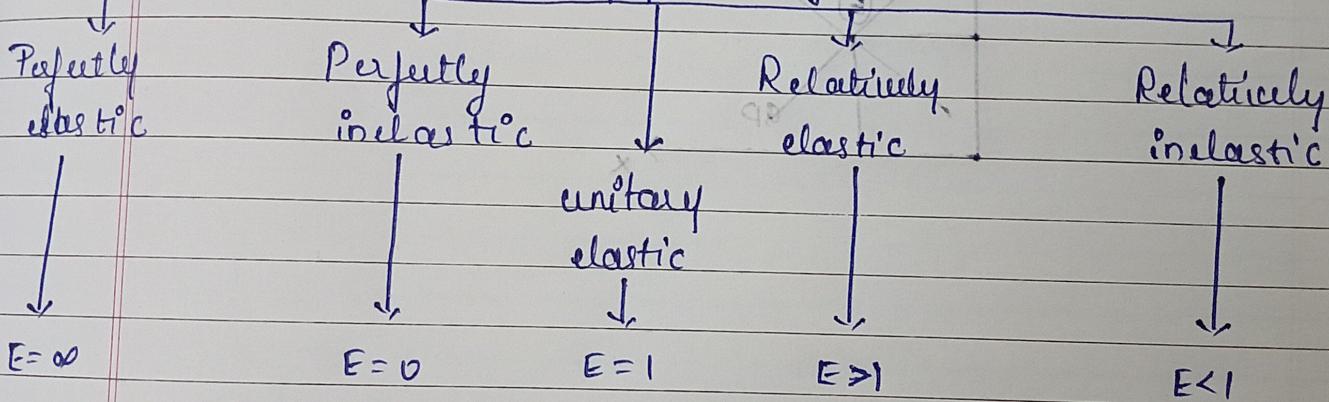
Curve is +ve and move towards right.



Elasticity of supply

- Provide degree of responsiveness on supply owing to price
- $\frac{\% \text{ change in } Q_s}{\% \text{ change in Price}}$ (or) $\frac{\Delta Q}{\Delta P} \times \frac{P}{Q}$

Type of elasticity



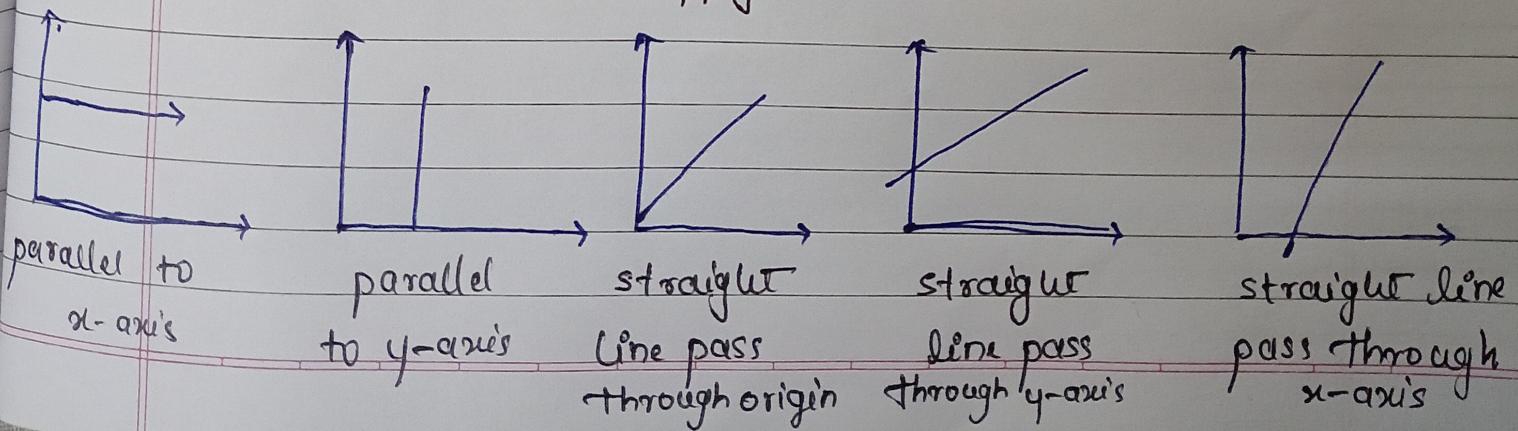
which change
in price has
huge impact
on supply

which change
in price has
no impact
on supply

which change
in price has
equal impact
on supply

change in
price has less
impact on
supply

change in
price has less
impact on
supply



Measuring elasticity

% Method

% change in Q_S
% change in price.

Arc method.

$$\times \frac{q_1 - q_2}{q_1 + q_2} \times \frac{P_1 + P_2}{P_1 - P_2}$$

Equilibrium quantity and price.

Where $Q_D = Q_S \rightarrow$ We call it equilibrium quantity

Price at E point

