

INTRODUCTION TO ECONOMICS

BSE: 3rd
SEMESTER

23/1/24

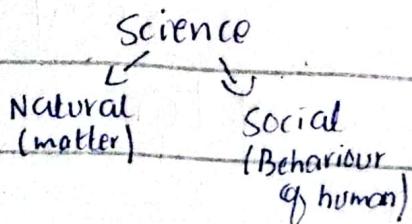
- ① Economics ② Politics ③ Society
(Daily Affairs)
- ④ Economics plays important role
in current affairs. E.g: Literacy rate,
CENSUS etc.....
(Read & Write
of own name
only).
- ⑤ Literacy and Education both
matters a lot.

*ECONOMICS:

The human behaviour
towards economic activities.

E.g: Sale / Purchase , Saving , Loan,
Investment etc....

- ⑥ The Management of scarce
Resources to fulfill human
wants in order to achieve Maximum
Satisfaction or Maximum output



: Investment:
Profit earning

in an efficient way.

* Management - Decision making.

(The right way decision).

* Resources (all the things available).

Scarce Resources (Natural and
Manmade) (Time Management)

(Limited sources).

* Human wants (Unlimited). But

Basic needs are:

① Food ② Cloth ③ Shelter

(If all these are available then
comforts wants) (Luxuries start

after comfort).

(maximum satisfaction)

* ① Consumer / Buyer, Goods (things)

② Producer (maximum output) (Profit).

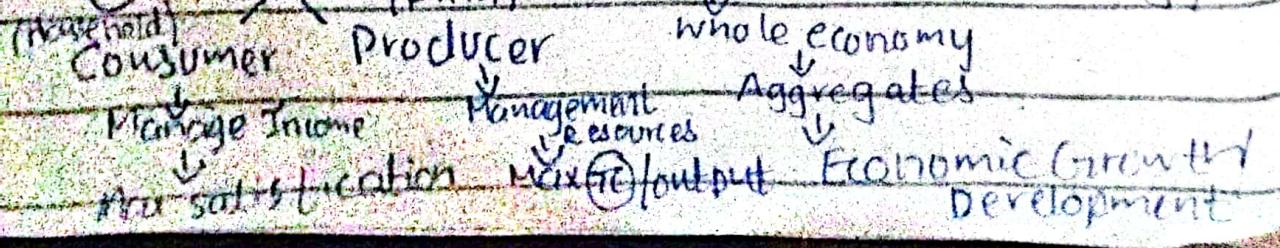
* Efficient way (100% of effort).

* Branches of Economics:

① Micro Economics (study of individuals)
(one tree from forest)

② Macro Economics (study of whole country
or nation)

* Micro (Firm) Macro (Pakistan and India
Economy).



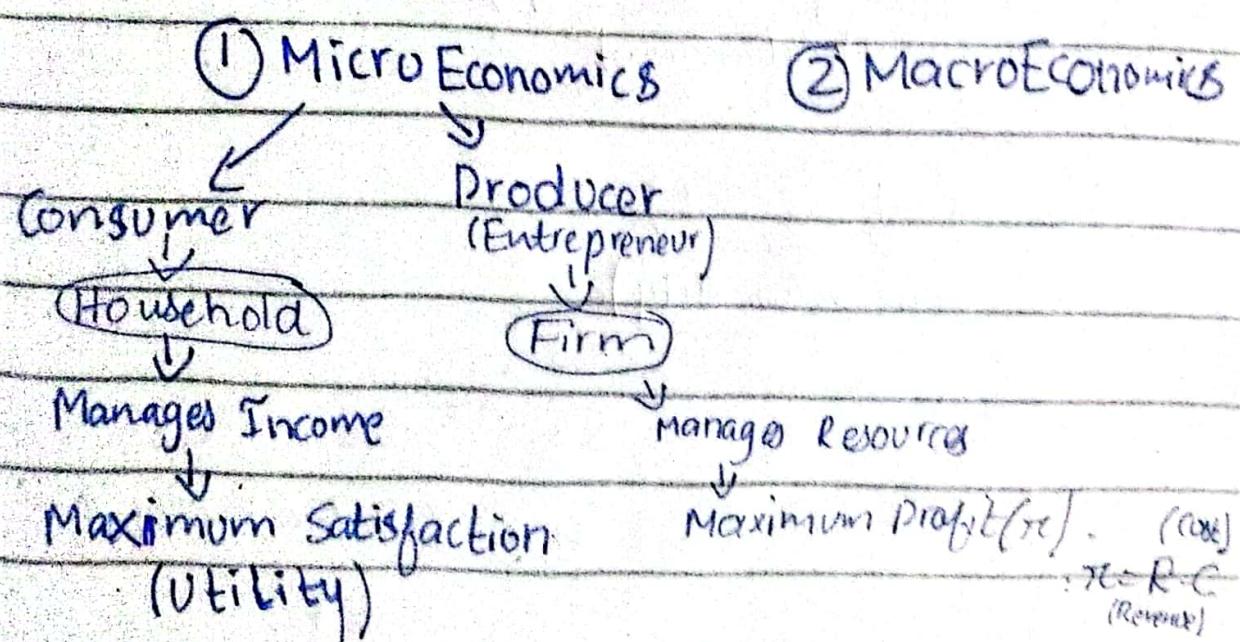
** Project : Group Presentations (Before mid)
2,3 Quiz before mid.
(Also after mid)
(conventional Economics)

* International Economy, Development
Economics , Econometrics (Maths, CS,
SE, Technologists), Islamic Economics
(Teaching of Quran and Hadees)

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- * Finance is a part of Economics.
- * Problems of country solved by stability and management.
- * Consumer and producer should decide or act rationally (positive aspects)

Branches:



- * Factors of Production (Management, Employee, Decision maker, material etc).

(FOP) (Transformation of input into output)

* Four factors of Production:

① Land

② Labour (Every Human works) (teacher, principal, Human Resource)

③ Capital (Financial resources, materials, equipments etc.)

④ Business Organization (Manager).

In order to undergo production these four factors must be followed.

* You can start your business by taking loan.

* Firm, Factory, Industry

(organization) (Producing

(Single owner)

(BATA) (selling

place outlet) (software houses)

(revenue)

(Shoe Industry.

Combination of

firm producing

same good)

$$\pi = R - C$$

(Profit) ↓ (cost)

(Price × Quantity.)

1000 × 10

= 10000

Land-rent

Labor-wages

Capital-Interest
(loan)

: In every business
one pays other
earns.

Business organization → π
Profit

• If $R - C > 0$ then $(+\pi)$ (Positive Profit). (Abnormal Profit)

* Aid and
(Not to payback)

Loan
(Interest)

: Brain Drains

(Effect of

Unemployment &

income) (Leave
your country
& serve other).

* Remittance: Foreign Income
(Not include in
domestic level)

*

$$\pi = + \rightarrow (\text{Abnormal}) \quad R > C$$

$$\pi = 0$$

$$R = C$$

\rightarrow Normal profit

$$\pi = - \quad (\text{Loss}) \quad R < C$$

The Goal of firm is to earn profit.

* Consumer behaviour & firm behaviour.

(3 major categories) Firm (Categorized)

Monopoly (single seller) Oligopoly (some countable firms) Monopolist (uncountable firms)

(Mobile Phone company)

(strategies for marketing capturing or advertisement)

Firm:
Balance sheet

*

3 Basic Questions
of firm

① What to produce. (Allocation of Resources)

② How to produce. (Methodology and Techniques)

③ For whom to produce. (Distribution of Profit).

Land - rent

Labor - wages

Capital - interest

Organization - π (profit)

* Economic Thoughts:

① Capitalism (Economy where private ownership) (No Government interference, self interest)

② Socialism (System of Government)

(Government have check over any business)
(Every decision should think about the society)

(3) Islamic Economic System (Follow teaching for our deeds)
(Teachings of Islam not harm of Quran anyone) (Both in life and Sunnah)
(Pakistan is mixed economic system) (Capitalism & Socialism) (Private & Government)

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* Positive Vs Normative Economics (Fact or figure)

→ Positive Economics:

Statement of Fact or Figure (only fact)

→ Normative Economics:

Study of
Judgmental statements. (Suggestion also added with positive)
E.g: Pakistan should decrease inflation.

* Scarcity Vs Efficiency

(Limited Resources)
(For Earning and
competition Scarcity
is important)

(For achieving
the targets by
putting efforts)
(Consequence of
Scarcity)

* Developed Vs Underdeveloped

(Achieve the
economic target)
(E.g: China, Japan)

(Trying to
achieve economic
target)
(Pakistan, Sri Lanka)

* Millenium (1000 years), Century (100).

* Millennium Goals (IMF, WHO etc.)

* SDGs (Sustainable Development Goals)

* 1st July - 31st June (Budget Plan).

* Health, Education, Communication, Transport & Industrial Sectors.

* Global Financial Crisis (2008).

Sri-Lanka Crisis (Nowadays)

* 1970 (Oil Crisis) (Arab Countries Spring crisis of oil).

* Management (Properly Balance to get economic result).

* Google Scholar (Article Reading)

○ PRODUCTION POSSIBILITIES

FRONTIER (Boundary) (^{Maximum} Capacity)

→ Goods

Guns

(Defense tools)

Butter

(Food consumption)

100% A 15 Guns

0% A 0

B 14 Guns

B 1

(People want better)
(achieving & learning)

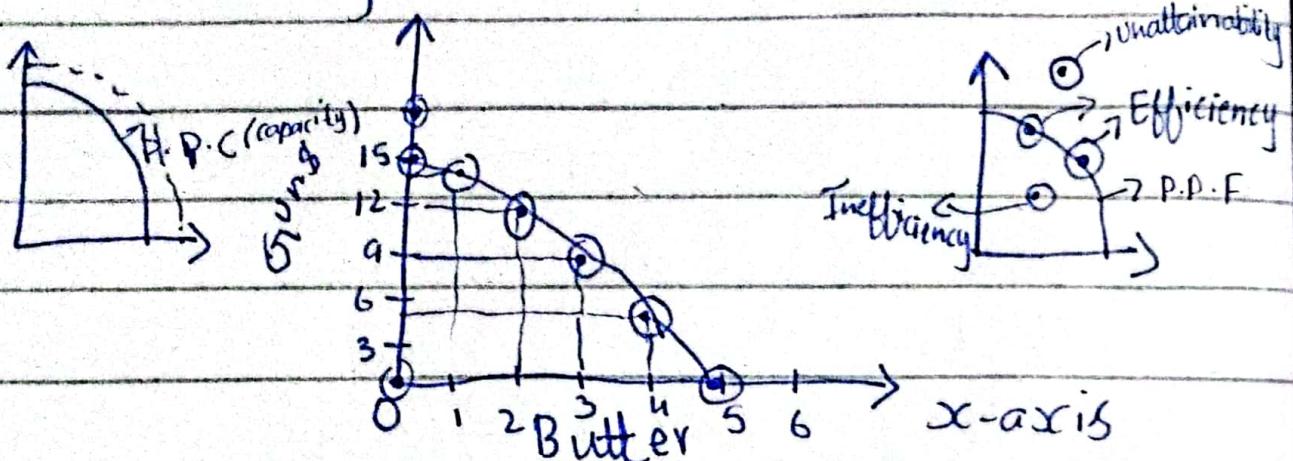
Define and explain P.P.F & P.D.C with respect to Inefficiency, Opportunity cost, efficiency.

: Question

- ① Definition
- ② Graph
- ③ Example

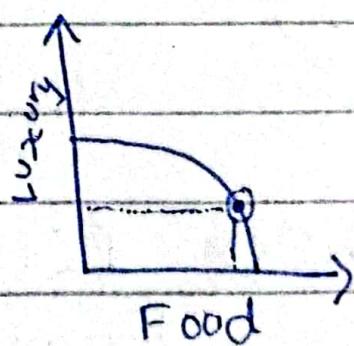
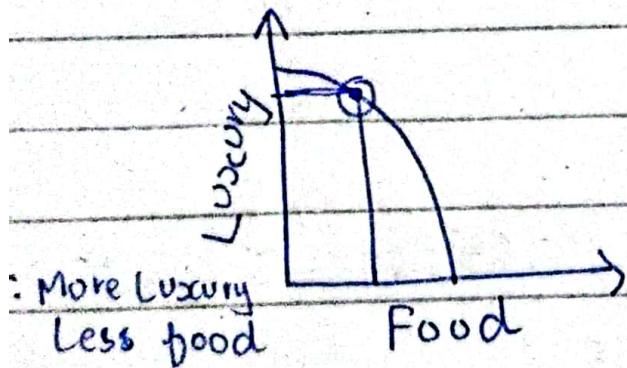
(C)	12	2
Opportunity cost	(D)	9
	(E)	5
(F)	0	5

y-axis



ⓐ High Income Nation (Rich)

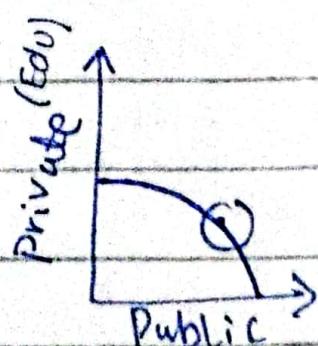
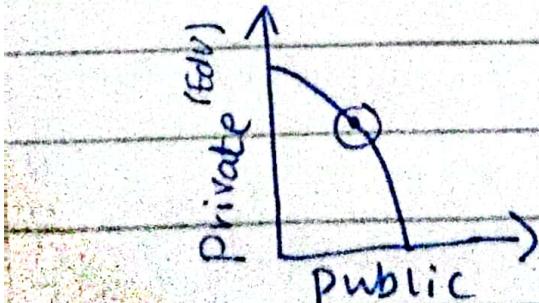
Low Income Nation (Poor)



: More food less luxury

ⓐ Urban

Frontier



: May be Quiz on Thursday

11/2/24

① Market:

Place where is a

demand and supply

(Consumer)

(How much is required)

(Actually consumer wanted

to buy through specific

resources) (Income
Management)

(Producer)

(Output or goods

Sent to market

or available in market

for consumer to buy

(Resource Management)

→ **Income** (Earning) (Putting effort
and earning some wages).

→ **Wealth** (Assets) (Its all the person own)
(Earned from anything)
(Ownership).

→ Purchasing Power (The power
to buy something) (Rich has more
purchasing power than poor).

(Upper class, Middle class, Lower class)

→ Demand:

Whenever you go outside
to buy something, if price is
high then purchase is less.

• **Law of Demand:**

The relationship b/w
Price and QD (Quantity Demand)

* $\uparrow \text{Price} \propto \frac{1}{QD \downarrow}$

* **Normal Goods** (which follows law of demand).

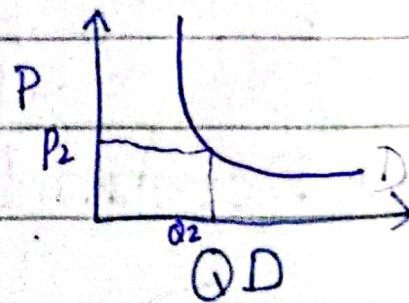
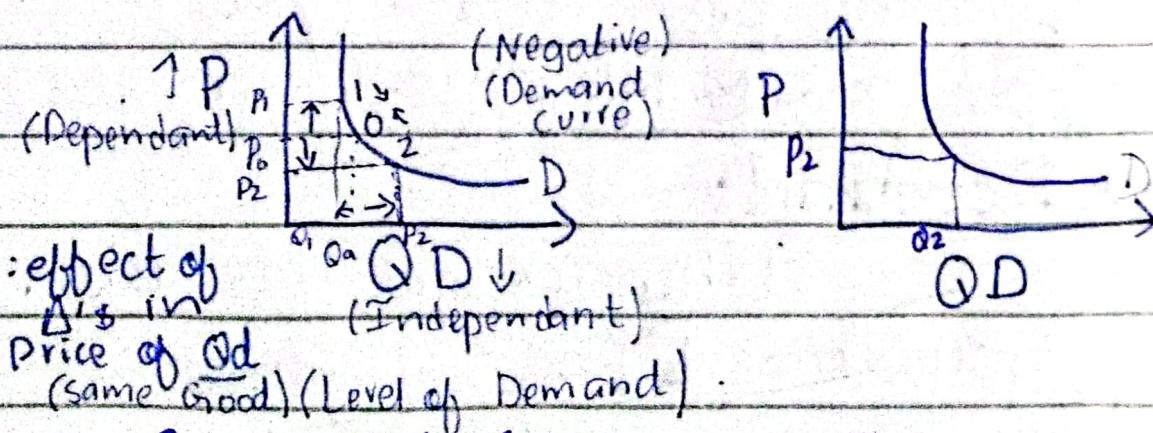
* **Giffen Goods** / Donot obey law of demand).

* **Inferior Goods** (cheap) ($P \downarrow \rightarrow Q \downarrow$)

* **Superior Goods** (Luxury, High price)
 $\uparrow P \rightarrow Qd \uparrow$ (Not related to daily life).

* **Basic Goods** (Always Required not depend on price).

* **Dependant and Independant Variables**



* **Substitutes:**

Preferring one good over other of same quality but different company. (Depend on price level).

① Compliments:

Two or more quantity depend on each other.

One good price increases, then other increases. Eg: Bat & ball, Racket & shuttle etc....

→ Some things have no substitute. No effect on demand. Eg:

Milk, wheat etc.....

→ Whenever price of good changes, the level of demand changes.

② Determinants of Demand:

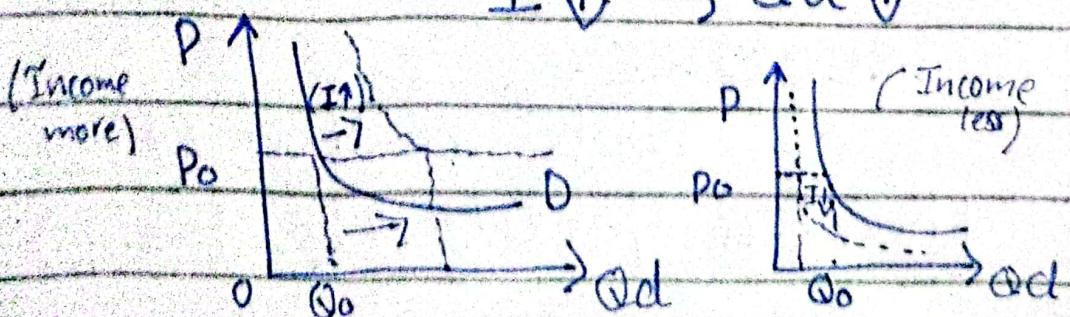
Demand changes not with respect to

changes of price ^(remains same) Demand depends on : _(population, quality)

③ Income

$$I \uparrow \rightarrow Q_d \uparrow$$

$$I \downarrow \rightarrow Q_d \downarrow$$



② Population:

: Poor people
think children
as their asset

$$\text{Pop} \uparrow \rightarrow Q_d \uparrow$$

$$\text{Pop} \downarrow \rightarrow Q_d \downarrow$$

: 6th most populous country
Pakistan.

③ Availability of Substitutes: (Price)

Coke &
Pepsi

Price of
substitute ↑ \longleftrightarrow $Q_d \uparrow$

Price of
substitute ↓ \longrightarrow $Q_d \downarrow$

④ Expected Price Future: (Effect on current Demand)

Price expected ↑ \longrightarrow $D \uparrow$
(P_{ex})

Price expected ↓ \longrightarrow $D \downarrow$
(P_{ex})

⑤ Taste:

Taste ↑ \longrightarrow $Q_D \uparrow$

Taste ↓ \longrightarrow $Q_D \downarrow$

⑥ Weather:

Winter Weather (Dry fruits
coffee, tea, jackets etc...)

⑦ Price of Related

Goods : (Burger → Chicken)

If the material price increases
then that good price also
increases and vice versa.

Demand curve is effected.

* ⑧ Grand Quiz (After Holidays).

(otherwise Quiz on
6/2/24)

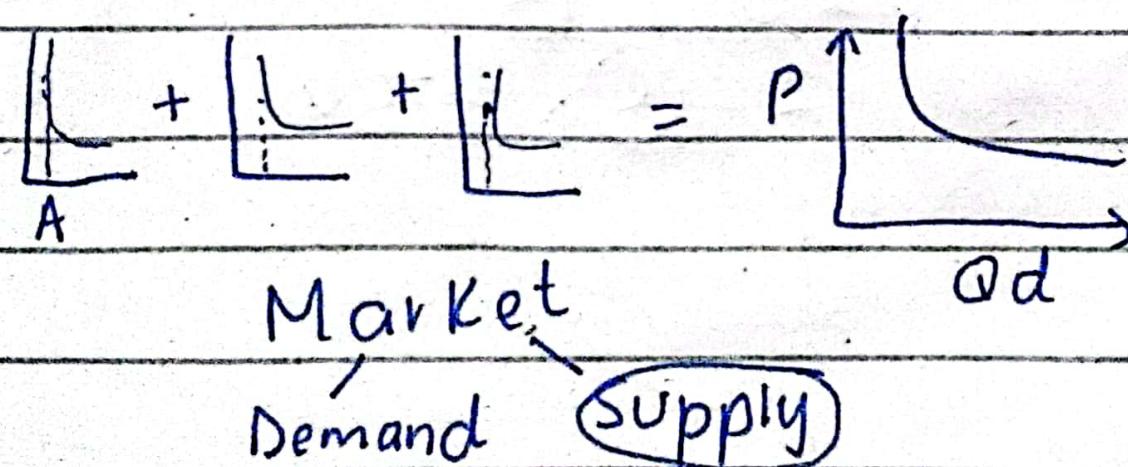
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n).

* Market Demand:

$$P \propto \frac{1}{D}$$

Sum of all the individuals demand is called market demand.



* Supply:

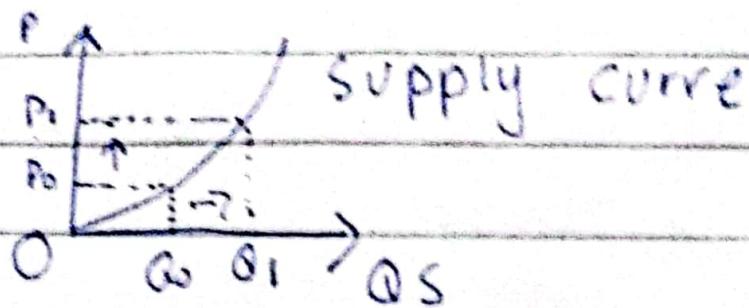
→ Firm / Producer

→ Manage all F.O.P

③ Price and Quantity have direct relation. (always upward conc.)

$$\uparrow Q_S \times P \uparrow = \uparrow \text{Revenue}$$

$$\text{Rev} \uparrow \rightarrow \uparrow \pi$$



④ Effect of Δ in Price on Supply

④ Determinants of Supply:

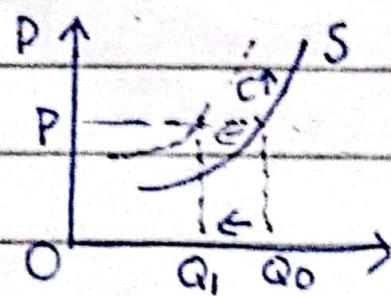
(i) Cost of Production:

$$C \uparrow \rightarrow S \downarrow$$

$$P \times Q = R$$

$$R - C \uparrow = \pi \downarrow$$

: profit maximization
: cost minimization



(ii) Price of Raw Materials:

$$P \uparrow \rightarrow Q_S \downarrow$$

(Price)

(2) Future Exp:

$P_{exp} \uparrow \rightarrow Q_S \downarrow$

ize)

(3) Degree of factor Mobility:

Availability of factors

of production (materials): (easier)

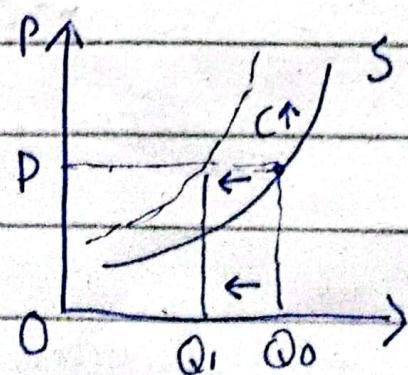
$COP \uparrow \propto Q_S \downarrow$: Easy or difficult (cost more)

(4) Demand:

Demand of related things, taste and weather etc...

$\uparrow Q_D \propto Q_S \uparrow$

* Demand from consumer behaviour and Supply from firm behaviour.



* Technology:

Anti (consumer) and Pro (for producer) subsidy by Government

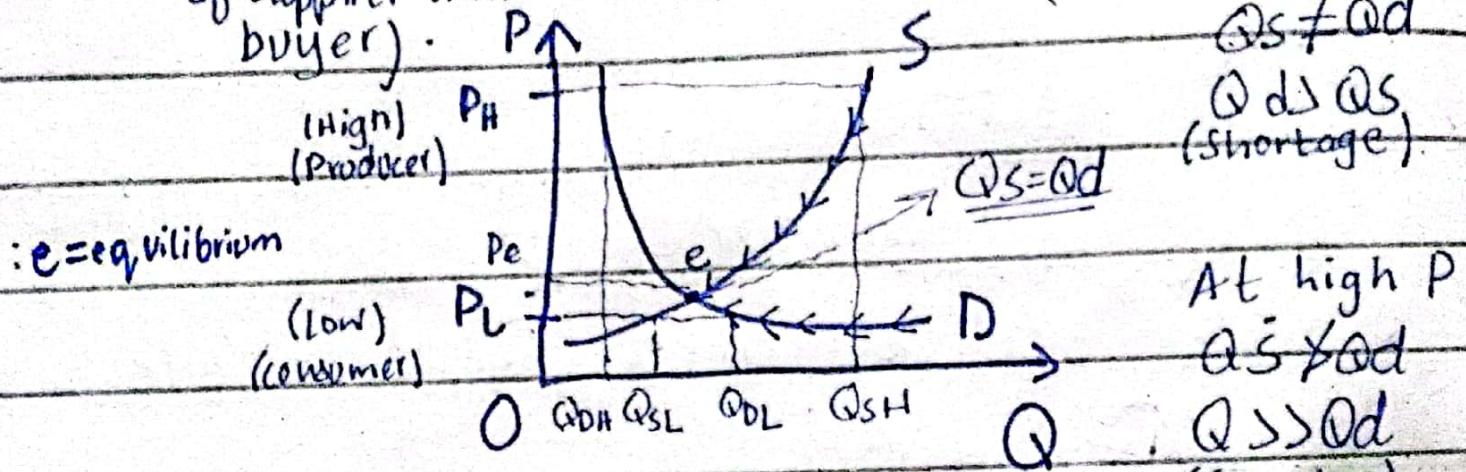
* Pakistan Bureau (Wages and details of price).

* Taxes (Effect both consumer and supplier)

↑ Tax → ↓ consumer buying power

* Market Equilibrium:

(Interaction of supplier and buyer).



→ If there is shortage and surplus in market

then there is no market equilibrium.

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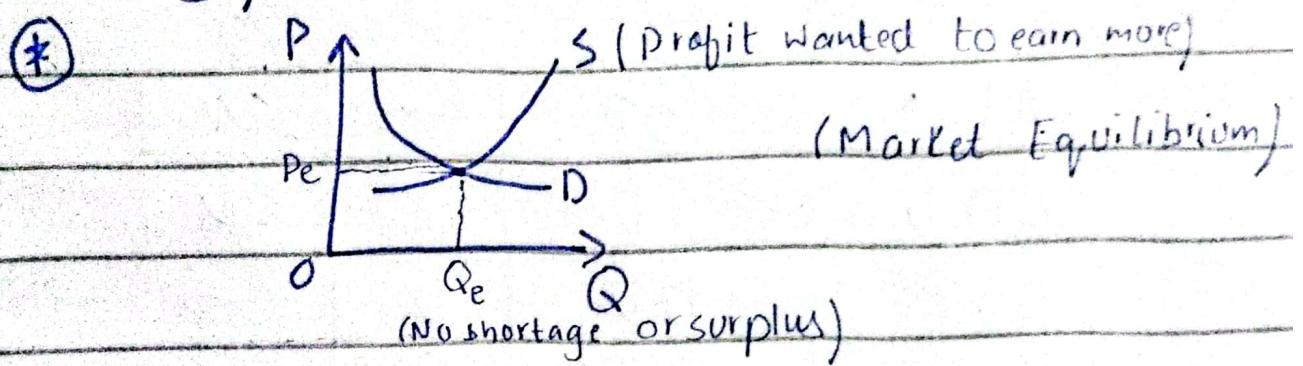
① Market equilibrium is obtained

Demand and Supply curve

(Negative slope) (Opportunity cost decreased) (Positive Slope) (Profit Increases)

(Negative (Because of availability
Reaction) of substitute)

* Utility (Satisfaction) (Customer utilize)
 (can be measured). (More utilize, consume increases satisfaction level decreases). (Drinking water in thirsty condition). (Adam's Smith) (Pioneer of Economics) (Water - Diamond paradox theory).

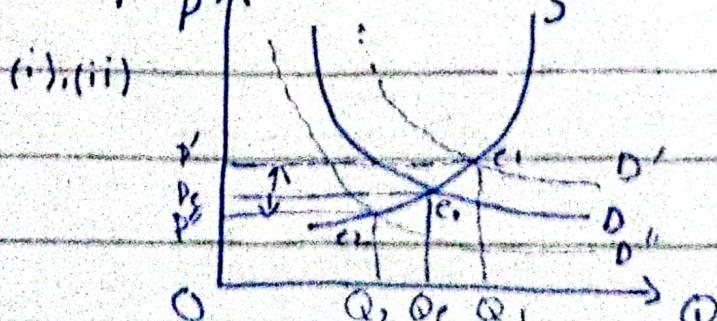
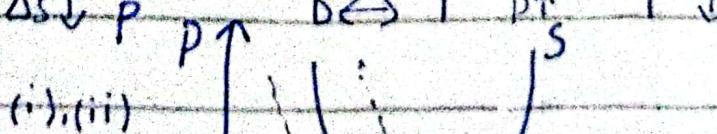


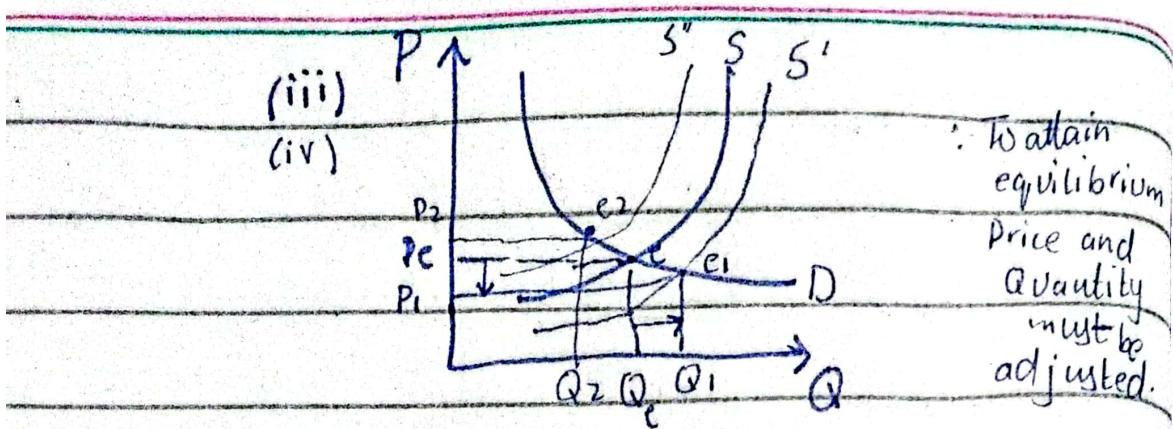
* Changes in D & S on P & Q in Market Equilibrium -

$\Delta D \uparrow$	$S \leftrightarrow$	P ↑	Q ↑
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$\Delta D \downarrow$	$S \leftrightarrow$	P ↓	Q ↓
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$\Delta S \uparrow$	$D \leftrightarrow$ (constant)	P ↓	Q ↑
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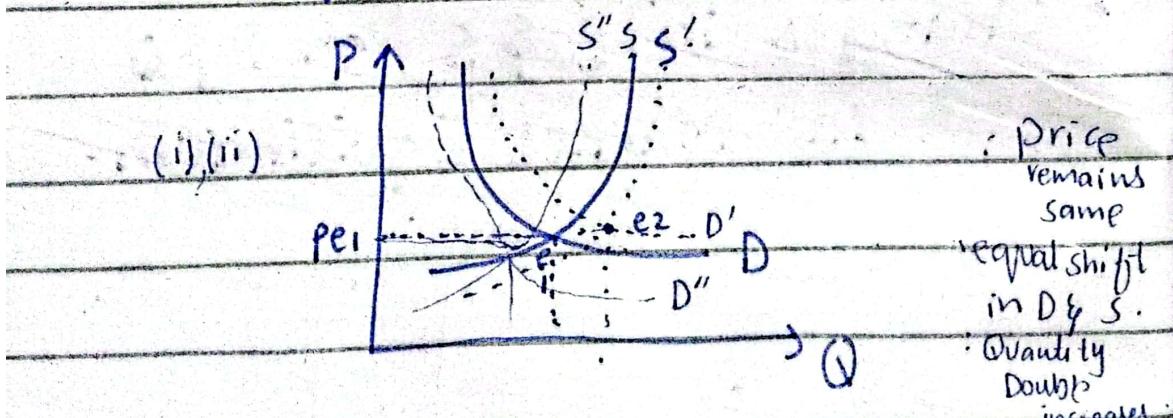


* Cost of Production (Supply)

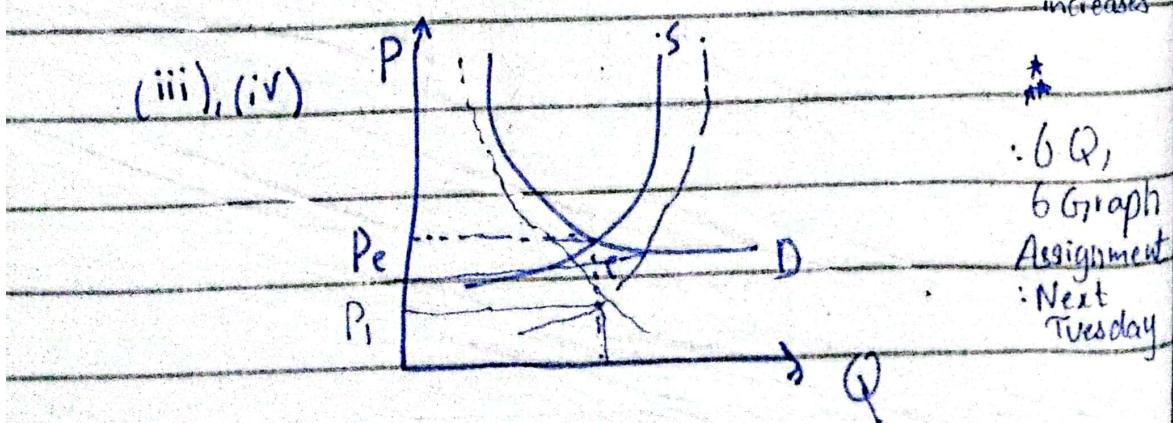
and Income (Demand).

(*)

	P	Q
$\Delta D \uparrow$	$S \uparrow$	\leftrightarrow
$\Delta D \downarrow$	$S \downarrow$	\leftrightarrow
$\Delta S \uparrow$	$D \downarrow$	$\downarrow \leftrightarrow$
$\Delta S \downarrow$	$D \uparrow$	$\uparrow \leftrightarrow$



(iii), (iv)



④ Tax imposition (Tax increases)
(Both buyer and seller pays tax)

If $\uparrow T$ then $\downarrow D \downarrow S$

If $\downarrow T$ then $\uparrow D \uparrow S$

22/2/24

* ELASTICITY OF DEMAND:

Responsiveness of change in Q_d with respect to change in price.

→ Petrol price, no response, less elastic. (inelastic).

Elasticity or Responsiveness.

→ More elastic & InElastic (Less elastic,
(More response) (Less response)
(Sale on things) (Basic needs)
(Substitute available) (No substitute available)
(Luxuries) (Short run time period)

→ Long run time
Period (years or decade) (Less than 1 year) (less elastic)
(More elastic) (century, millennium (1000 years))

✳ Ped (Price elasticity of demand)
(Change in Price).

$$P_{ed} = \frac{\% \Delta \text{ in } Q_d}{\% \Delta \text{ in } P}$$

: 5 cases
of elasticity behavior

→ ① $\Delta \text{ in } Q_d > \Delta \text{ in } P$
(Elastic case) e > 1 elastic

→ ② $\Delta \text{ in } Q_d < \Delta \text{ in } P$
e < 1 inelastic

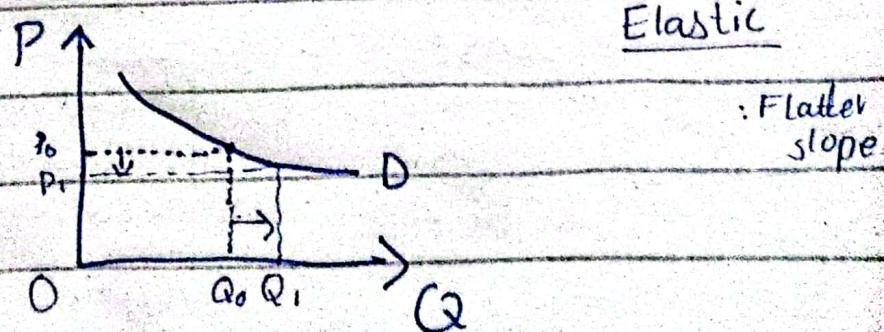
→ ③ $\Delta \text{ in } Q_d = \Delta \text{ in } P$
(change) (Demand)

e = 1 Unitary elastic

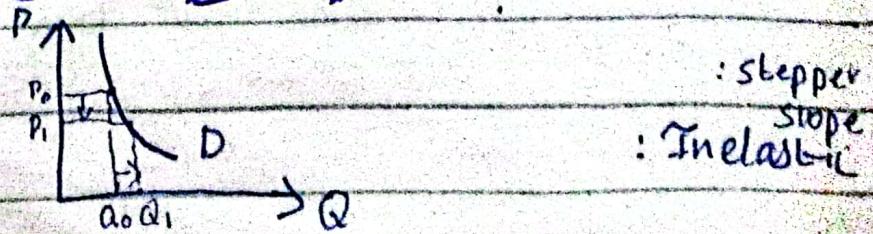
→ ④ $\Delta \text{ in } Q_d = \infty$: (Air breathing)
 $\Delta \text{ in } P = 0$ Perfectly elastic

→ ⑤ $\Delta \text{ in } Q_d = 0$ (Piece of land)
 $\Delta \text{ in } P = \infty$ Perfectly inelastic

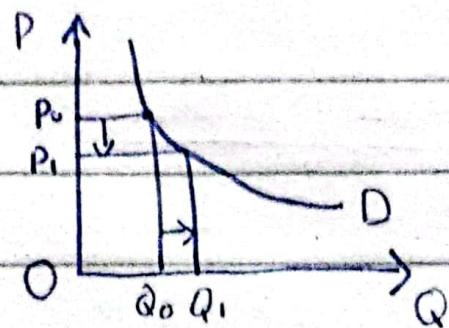
① $\Delta \text{ in } Q_d > \Delta \text{ in } P$:



② $\Delta \text{ in } Q_d < \Delta \text{ in } P$:



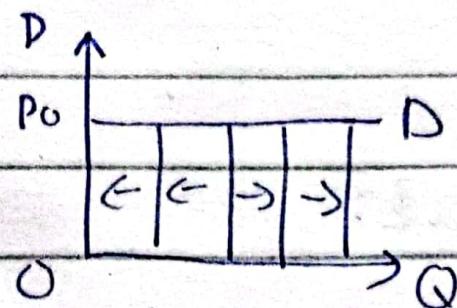
(3) $\Delta \text{ in } Q_d = \Delta \text{ in } P:$



Unitary elastic.

(4) $\Delta \text{ in } Q_d = \infty$

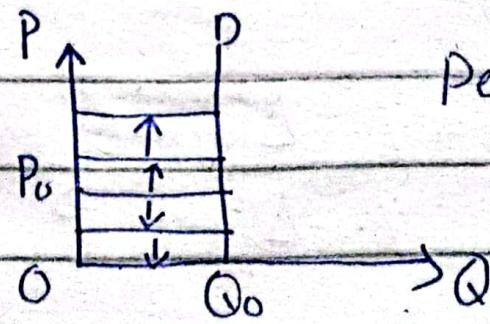
$\Delta \text{ in } P = 0$



Perfectly elastic.

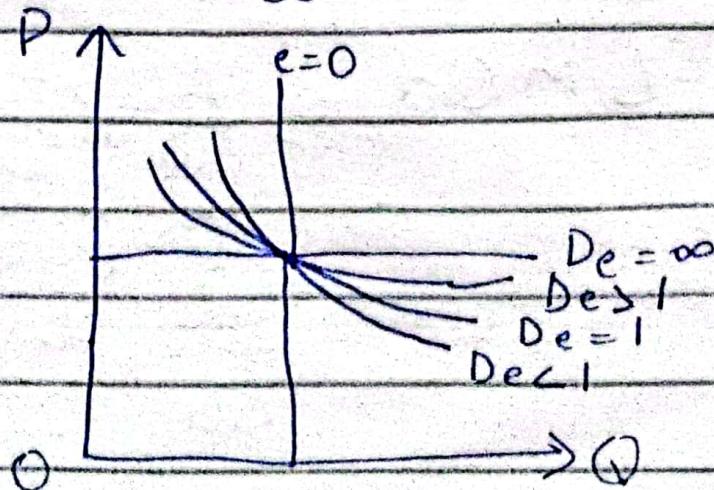
(5) $\Delta \text{ in } Q_d = 0$

$\Delta \text{ in } P = \infty$



Perfectly inelastic.

(6)



(ALL in
one
diagram)

* Income Elasticity:

$$= \frac{\% \Delta \text{ in } Q_d}{\% \Delta \text{ in } I}$$

* Cross Elasticity:

Good A Good B

$$= \frac{\% \Delta \text{ in } Q_d(A)}{\% \Delta \text{ in } P(B)}$$

: Substitute
(+, positive)

: Complement
(-, negative)

: Normal
(0, zero)

→ Numerical:

①

P	Q
2	100
4	90

SOL:-

e = ?

$$e_d = \frac{\% \Delta \text{ in } Q_d}{\% \Delta \text{ in } P}$$

Step-I:

$$\% \Delta \text{ in } Q_d \rightarrow \frac{\Delta Q}{Q} \times 100$$

$$\Delta Q = [Q_2 - Q_1]$$

$$\Delta Q = 100 - 90$$

$$\Delta Q = 10$$

$$\underline{Q = \frac{Q_1 + Q_2}{2} = \frac{100+90}{2}}$$

$$Q = 95$$

$$\therefore \Delta \text{ in } Q_d = \frac{10}{95} \times 100 \\ = 10.56\%.$$

○ Step-II:

$$\therefore \Delta P \text{ in } P = \frac{\Delta P}{P} \times 100$$

$$|\Delta P| = 2-4 = 2$$

$$P = \frac{2+4}{2} = \frac{6}{2}$$

$$P = 3$$

$$\therefore \Delta P \text{ in } P = \frac{2}{3} \times 100 \\ = 66.66\%.$$

$$\rightarrow e_d = \frac{\therefore \Delta \text{ in } Q_d}{\therefore \Delta \text{ in } P} = \frac{10.56}{66.66}$$

$$e_d = 0.15 \quad [\text{el}]$$

$$\textcircled{2} \quad \therefore \Delta \text{ in } Q = 10.2\% \quad (\text{Inelastic})$$

$$\therefore \Delta \text{ in } P = 5.6\% \\ e_d = ?$$

27/2/24

* ELASTICITY OF SUPPLY:

→ Price elasticity supply:

$$Pes = \frac{\% \Delta \text{ in } Q_s}{\% \Delta \text{ in } P}$$

: $es > 1$ (elastic supply)
 $es < 1$ (inelastic)
 $es = 1$ unitary

Factor:

(1) Capacity of firm:

\uparrow COF $\propto es \uparrow$

→ less expansion of business, then it is inelastic.

2) Length of Production Process:

→ Wheat or any crops price not increase immediately.

$$\downarrow \text{LOPP} \propto \frac{1}{es}$$

3) Degree of factor Mobility:

$$P \times Q = R \uparrow$$

Resources easily available = elastic supply

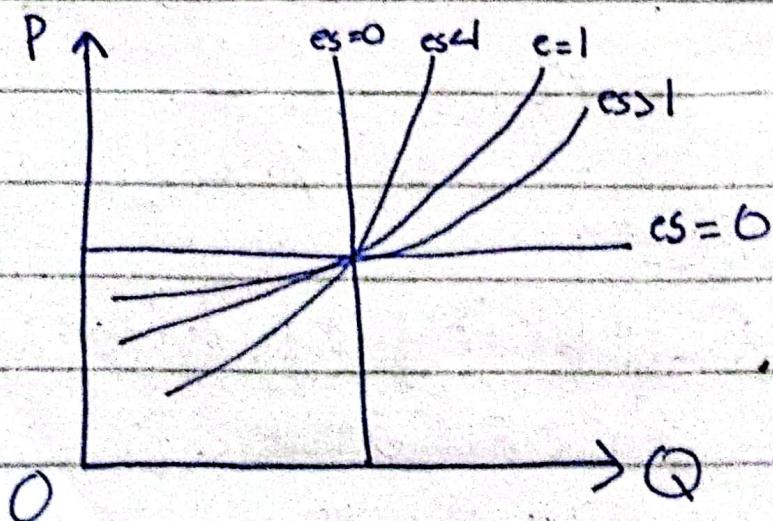
Not easily available = inelastic supply.

4) Barriers of Entry:

(By Government of registration).

More Barriers → Inelastic

Less Barriers → Elastic.



* Example:

P	Q
10	25
20	25

$$P_{es} = \frac{\% \Delta \text{ in } Q_s}{\% \Delta \text{ in } P}$$

Step-I:

$$\rightarrow \% \Delta \text{ in } Q_s = \frac{\Delta Q}{Q} \times 100$$

$$\Delta Q = Q_2 - Q_1 = 25 - 25$$

$$\Delta Q = 0$$

$$Q = \frac{Q_1 + Q_2}{2} = \frac{25 + 25}{2}$$

$$Q = 25$$

$$\therefore \% \Delta \text{ in } Q_d = \frac{\Delta Q}{Q} \times 100$$

$$= \frac{0}{25} \times 100$$

$$= 0\%$$

$$P_{es} = \frac{0}{\% \Delta \text{ in } P}$$

$$\Rightarrow P_{es} = 0$$

$e_s = 0$ (Perfectly inelastic).

* CONSUMER BEHAVIOR:

→ Rational

(Decision-making right or have complete knowledge and information)

(Personality making decision correctly and not harms our society then it is rational behaviour).

Manage Income

Maximum Satisfaction
Utility

Budget / Affordability

→ Decision (Choice, Taste, Preferences).

→ Absolute (Firstly decided).

→ Utility

Ordinal

(rank and order and then select).

(one has more satisfaction than other).

Cardinal

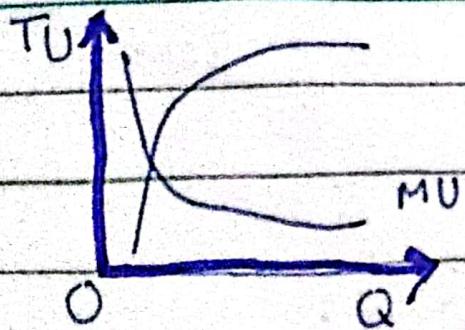
Absolute

(one good is prior to other) (Maximum satisfaction level)

Qd	TU	MU	$\frac{\Delta TU}{\Delta d}$
0	0	-	
1	4	4	4
2	7	3	3
3	9	2	2
4	10	1	1
5	10	0	0

(satisfaction decreasing)
(declining concept)

→ Law of Diminishing MU.



$$\therefore TU = \sum MU$$

(Only tells total units)

: Good choose (M.U increases)
(Tells us actually utility)

$$\frac{MU}{P}$$

\rightarrow Good X Good Y Good Z

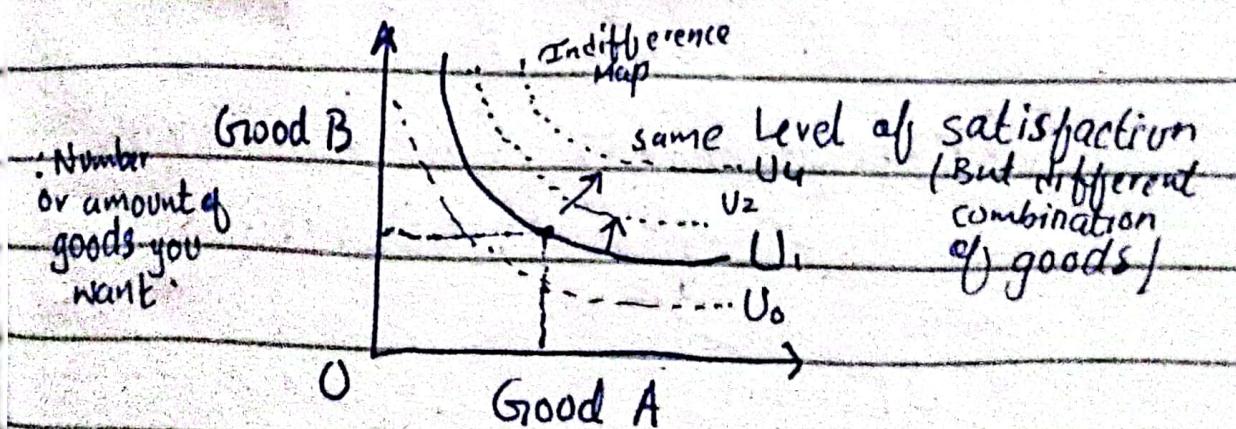
$$(\text{ordinal}) \frac{MU_x}{P_x} = \frac{MU_y}{P_y} = \frac{MU_z}{P_z}$$

$$(\text{ordinal}) \frac{MU_x}{P_x} > \frac{MU_y}{P_y} > \frac{MU_z}{P_z}$$

5/31/24

④ Marginal means per unit change.

Good A Good B

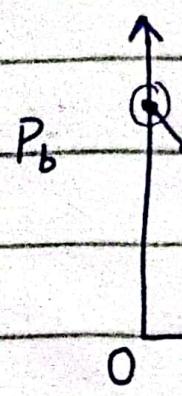


\rightarrow Indifference Curve (Any combination of 2 goods, consumer is willing

to get but have same level satisfaction.

→ Budget Line:

: Between
prices
of goods.



shows combination
of 2 goods you want
to buy.

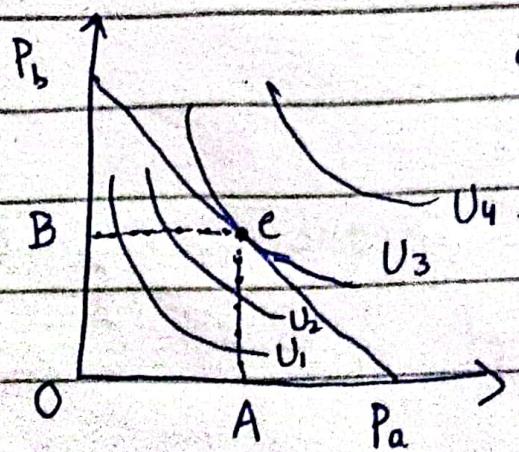
Affordability

: Income Line

Purchasing
Power

→ Consumer Equilibrium:

The one indifference
line which meets budget
line is a point
of consumer
Equilibrium.



→ Changes in Consumer's Equilibrium:

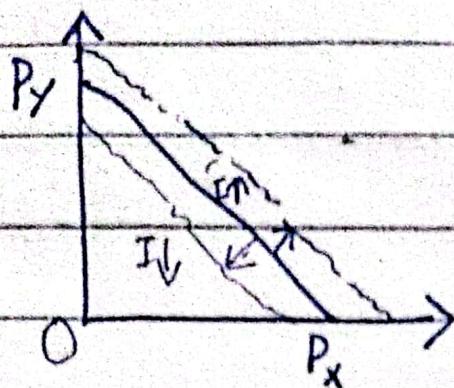
Δ (change)
in Income

Δ (change)
in Price

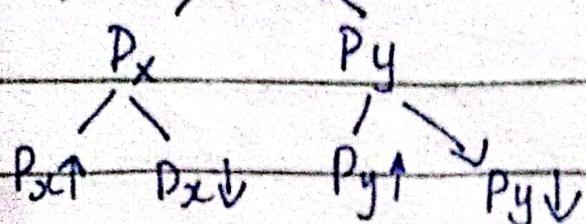
$P_x \uparrow$
 $P_x \downarrow$
 $P_y \uparrow$
 $P_y \downarrow$

* For short term (per month),
budget is same.

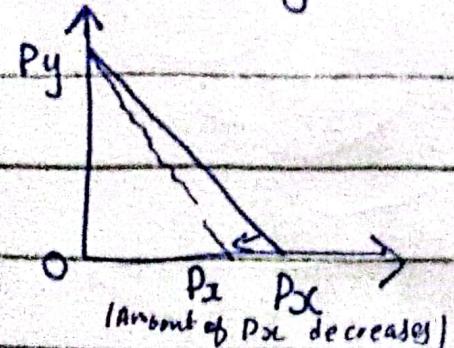
(k) Δ in I and Δ in P changes
or effect budget line.



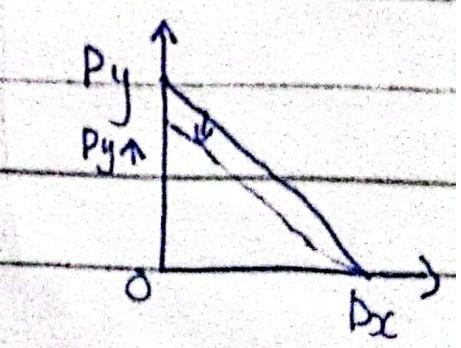
(ii) Δ in P



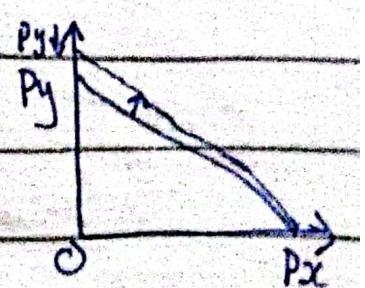
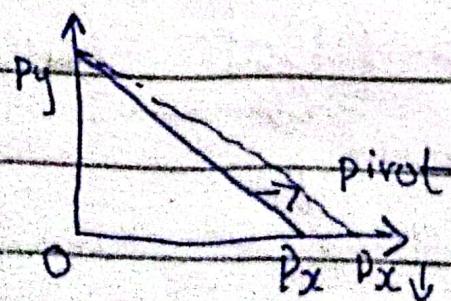
$\rightarrow P_x \uparrow$ $P_y \leftrightarrow$ (iii) $P_y \uparrow$ $P_x \leftrightarrow$

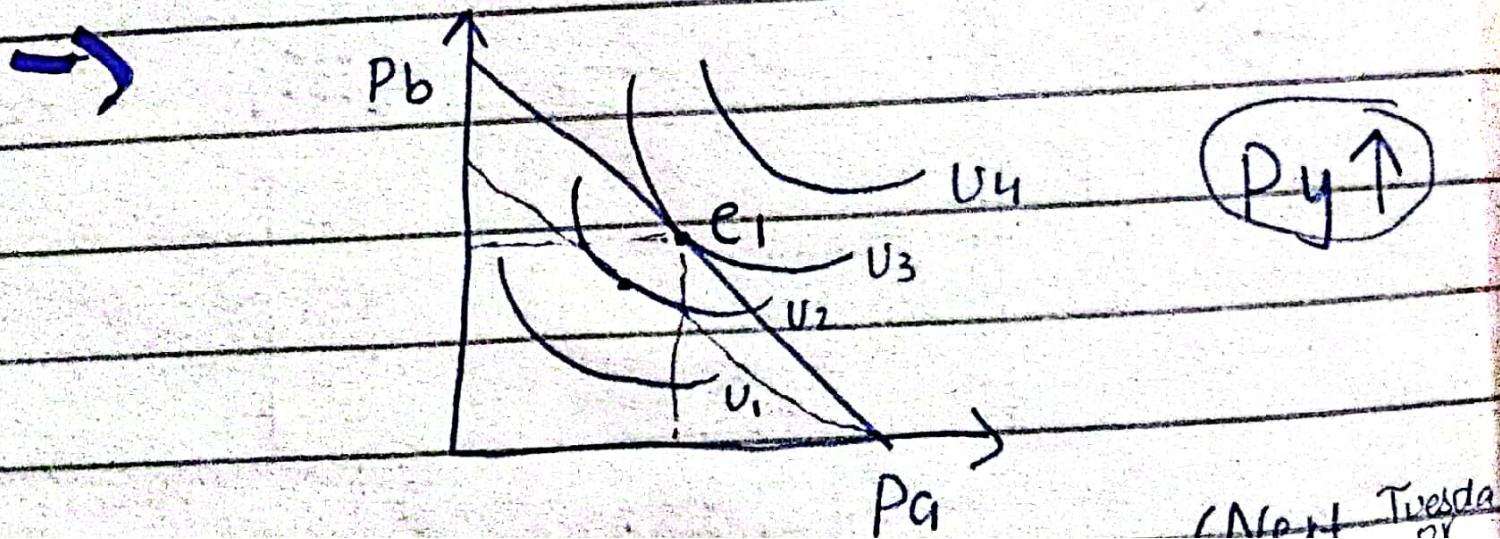
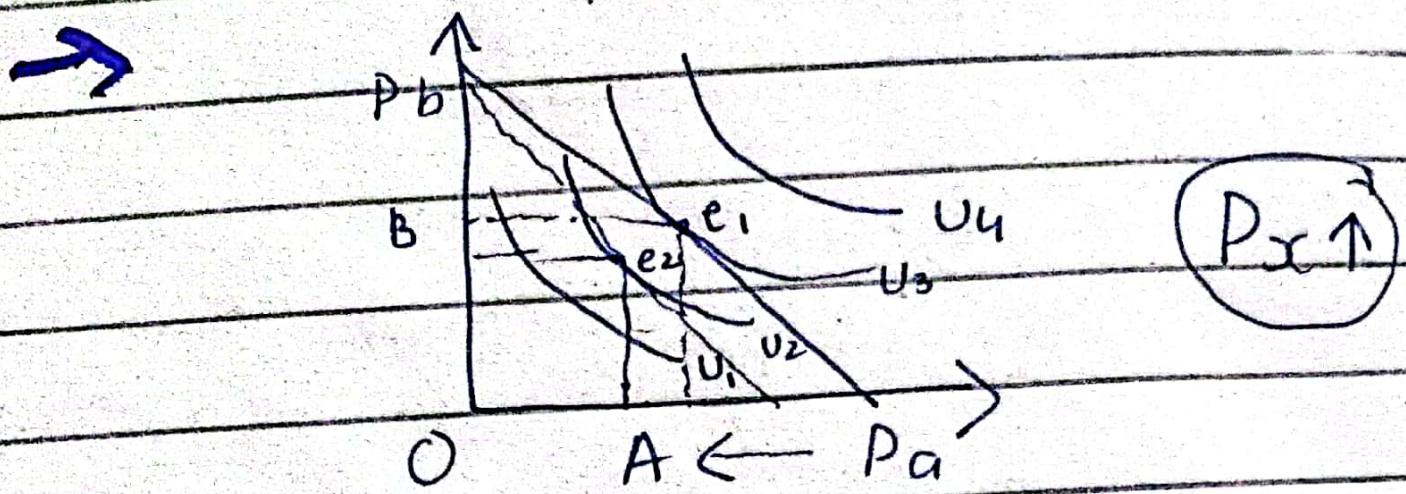
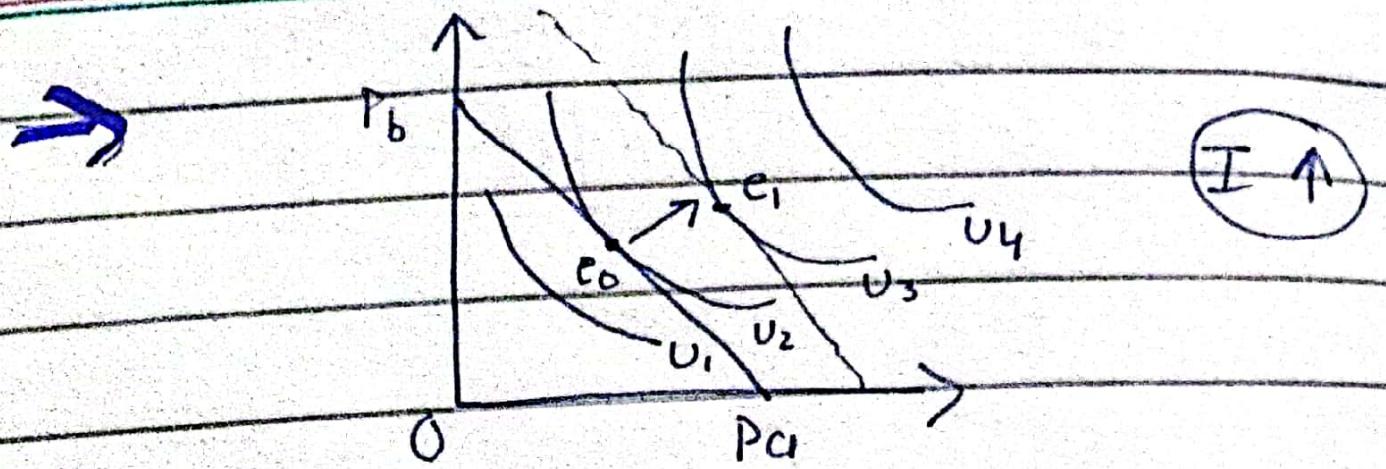


(iii) $P_x \downarrow$ $P_y \leftrightarrow$



(iv) $P_y \downarrow$ $P_x \leftrightarrow$





① PRODUCTION:

Theory of firm behaviour.

→ One industry is part of sector.
(Agricultural sector).

② Theory of firm behaviour

Cost Minimization Profit Maximization

→ Time Span:

(i) ① Infant:

0-6 months time

(ii) ② Small / Medium scale / Short term:

6 months - 1 years.

(iii) ③ Large Scale / Long term firm:

After 1 year it will
be large scale-

→ Capacity : (size)

- small Production
- Medium Production
- Large Production.

→ Firm Organization:

1- Sole Proprietor (One owner
of firm)

2- Joint Venture (Share,
partner)
(sharing of cost, profit,
management, risks).
(Optimistic - Risk taker
Passimistic - Away from risk).
(Upto 10 partners).

3- Corporation (share holders
more than 10) (C.E.O)

* Sole Proprietor (risk more,
paying taxes).

* Corporate (profit more).

* Documentation:

→ Balance Sheet (Keep
record)

Assets Liabilities

* Balance sheet should be
equal (C.A work).

7/3/24

④ Production Functions

maximum output ^(For any firm) a firm can produce by using given technology is production function.

→ Product

↓
Final Good

↓
Firm Hold Good

↓
Manufactured

↓
Good

$$R = P \times Q$$

↑ ↑

→ Total Product:

$$\frac{\Delta TP}{\Delta I} : I_{MP}$$

<u>Input</u>	<u>Output</u> _{TP}	<u>MP</u>
1	2000	-
2	3000	1000
3	3500	500
4	3800	300
5	3900	100

: More input
More cost
More Production

$$\underline{AP} \text{ (Average Product)} = \frac{TP}{I}$$

2000

1500

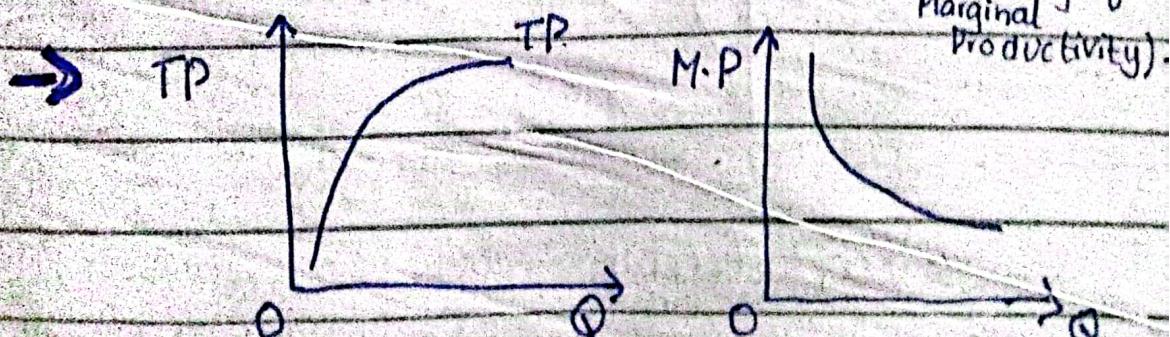
1167

950

780

: Labour:

Pay ↑ Leisure
(Reasoning of Marginal Productivity).



: Assignment (Table, explain, introduction) (3 Pages).

* ④ GFC (Global Financial Crisis).

Policy maker → Remove crisis.

④ Returns of Scales:

① Input → Output
(large scale firm)

(Increasing Returns of scales) Input << Output

(constant returns to scale) Input = Output

(Decreasing returns to scale). Input >> Output

(MORE output is produced by less input)
(Manual Handicrafts)

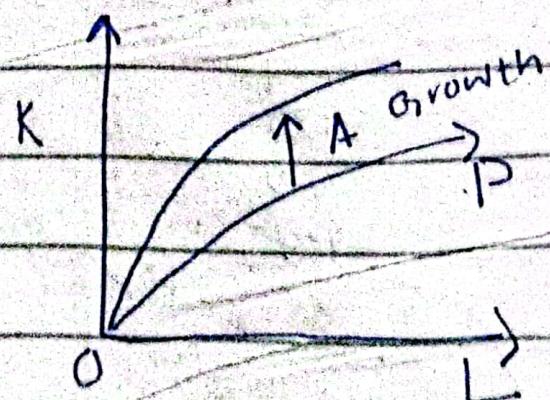
(Building making)
(More material but less unit).

* ⑤ Strengths, Weakness, Opportunity, Threats (SWOT)

(Presentation) (One firm) (Firm visit)

15 Marks
10
5
(group) (Individual)
(10-15 min) business plan (copy of slides).

* PF = A(K, L, N)
↓ ↓ ↓
Capital Labour Land



$$R = P \times \textcircled{③}$$

Productivity

rate of Input, Output.

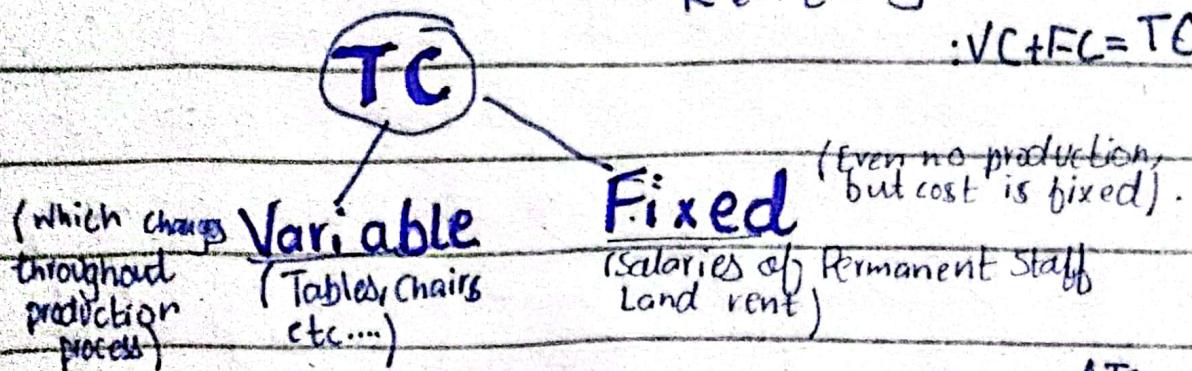
$$\therefore \text{Productivity} = \frac{KL}{TP}$$

→ Cost Minimization:

F.O.P → payments

→ wage
→ Interest
→ Rent

$$VC + FC = TC$$



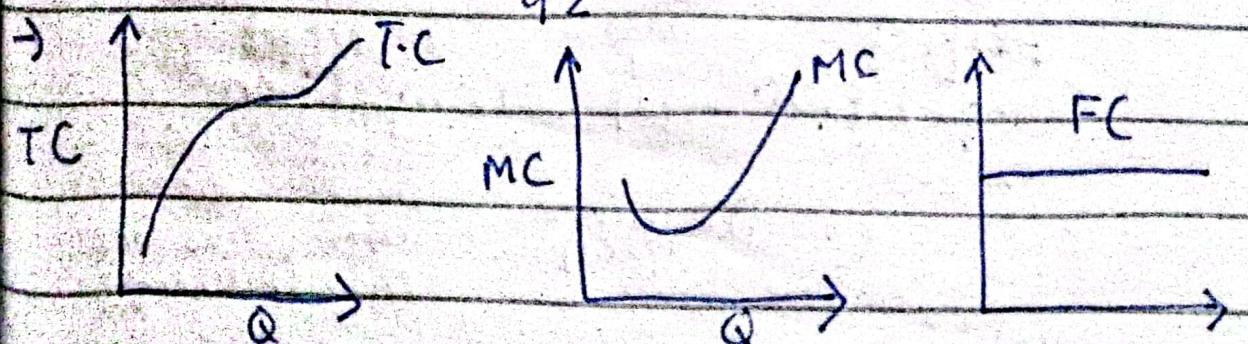
→ Q	TC	VC	FC	$\frac{\Delta TC}{\Delta Q}$	MC
0	55	-	55	-	-
1	85	30	55	30	30
2	110	55	55	25	25
3	130	75	55	20	20
4	160	105	55	30	30
5	210	155	55	50	50

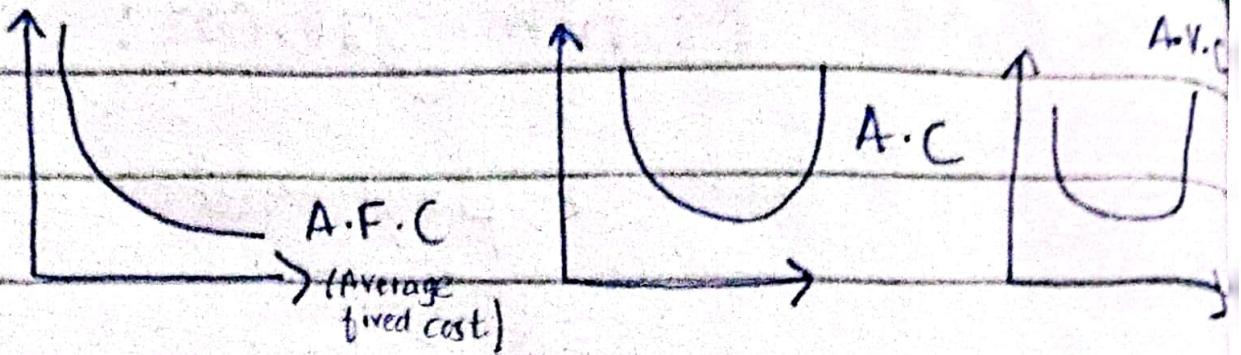
(Arranging)

$$\underline{AC} \quad \frac{TC}{Q}$$

—

85
55
43.3
40
42





* Significance of cost Analysis:
 (Decision to prolong business
 and make it cost minimum).

* U-Shaped curve (More production
 and more marginal cost).

12|3|24

Market Competition

of Firms

Idealized
Market
Competition

Perfect
competition

(Normal profit)

→ Idealized

→ Price Takers (Free entry)

→ Homogeneous goods

→ Many firms

→ Large No of buyer & sellers

Real
World
Competition

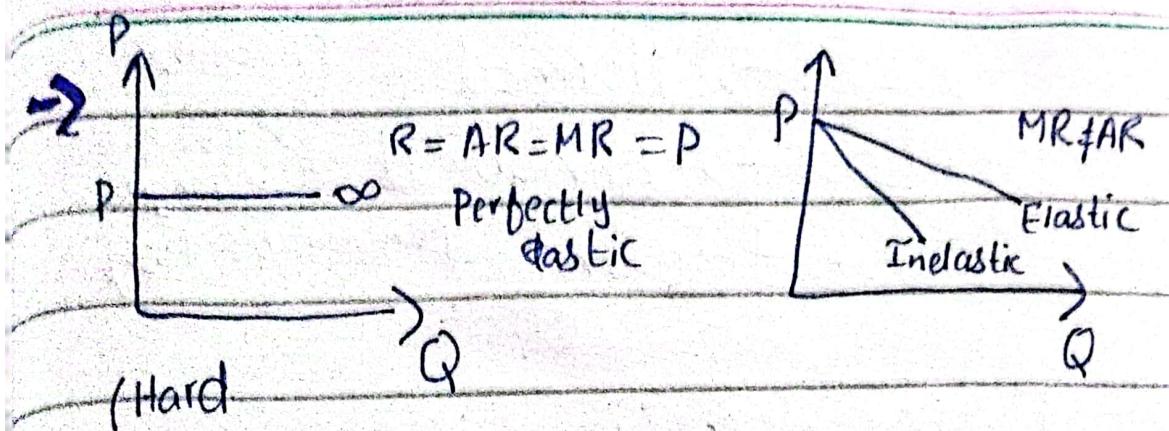
Imperfect
competition

→ Real Market

→ Price Maker

→ Heterogeneous Goods
(Barrier to entry + exit)

→ Large No of buyers
and sellers.



→ **Monopoly** (That firm whose no competitor)
 (Single) (seller) (All Government firms)
 (It is endangered in long run)
 (Sets price by ownself).
 (Abnormal profit).

→ **Oligopoly** (Few firms that can be countable) (Samsung, PEL, Dawlance, Haier)
 (One leader sets price) (Price leadership)
 (\uparrow Samsung \rightarrow PEL, Haier \uparrow) (Other set within leader range).

→ **Monopolistic Competition** (Large Number of firms) (Profit margin is too low) (Strategies applied to earn more profit).

→ **Perfectly Competitive Markets**

$$\pi = R - C$$

1-Normal Profits

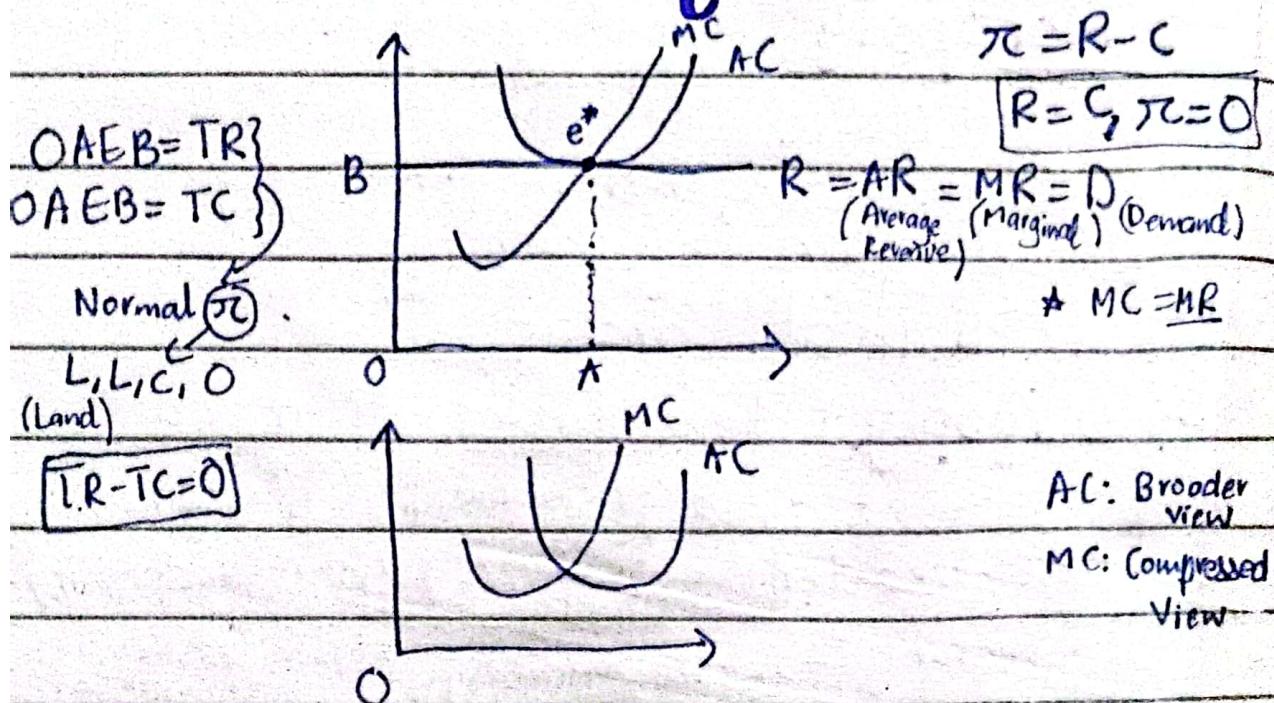
2-Abnormal Profits

3 → Loss → Normal (Bearable loss)

4 → Loss → Abnormal (Makes your firm a danger zone)

5 → Shutdown (Unbearable loss)

1) Normal Profit:



→ MC is below AC when $AC \downarrow$

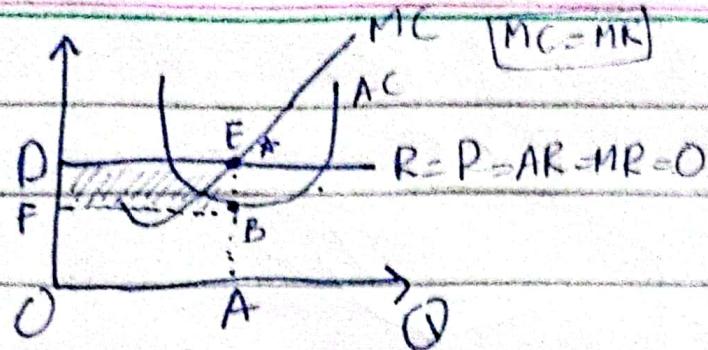
→ MC cuts AC at its Minimum

→ AC is \uparrow → MC is also AC

2) Abnormal Profit:

$$\pi = R - C$$

$$R > C \quad \pi = +ve$$



$$OAED = TR$$

$$OABF = TC$$

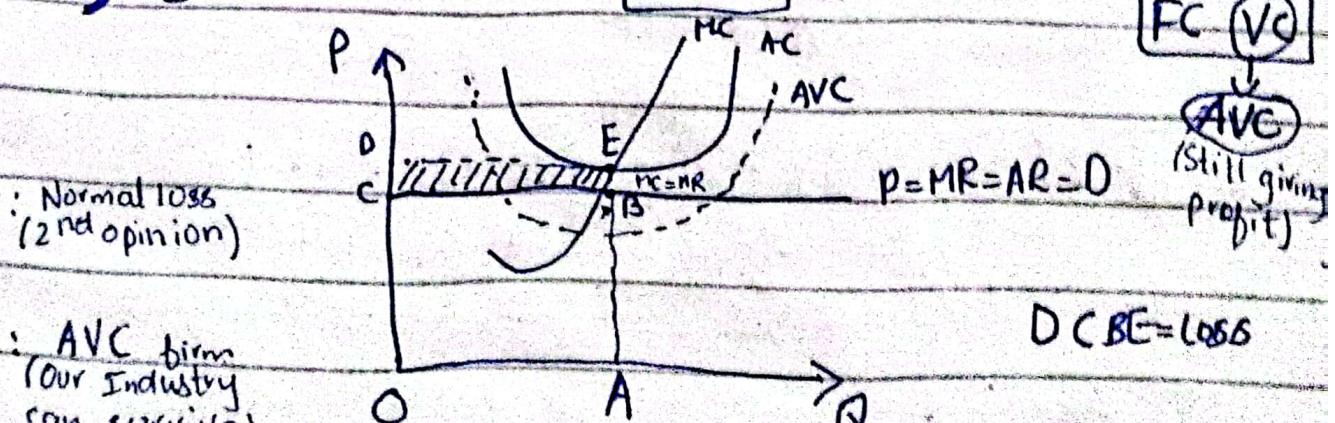
$$\pi = DFE\pi = \text{Profit}$$

14/3/24

* Perfectly Competitive Markets | Firms :

- 1) Normal Profit
- 2) Abnormal Profit
- 3) Normal Loss
- 4) Abnormal Profit
- 5) Shutdown

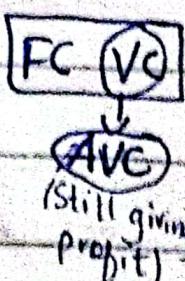
$\rightarrow \text{LOSS} - R - C = \pi [C > R] \quad \pi = -ve$



: AVC firm
(Our Industry
can survive)

$$OABC = TR$$

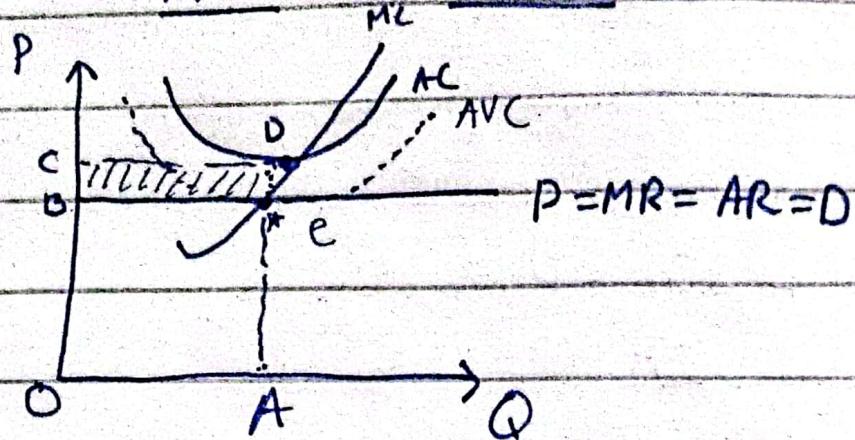
$$ODEA = TC$$



$$DCBE = LOSS$$

→ Abnormal loss:

$R < C \quad \pi = -ve$



$$OAEB = TR$$

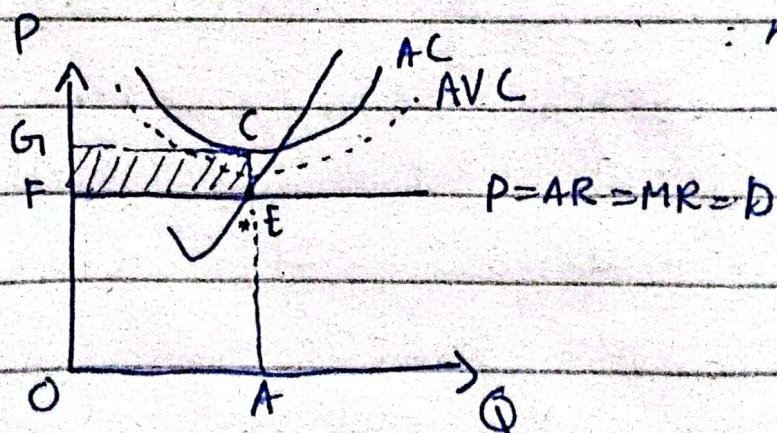
$$OCDA = TC$$

$$CBED = LOSS.$$

→ Shutdown:

(AVC)

Average
Variable
cost



$$OKEF = TR$$

$$OGCA = TC$$

$$GFCE = LOSS$$

* Price Discrimination:

(Degree of factor mobility)

(Advantages and Disadvantages)

* Perfect and Imperfect market

(Quality, product differentiation)

(Cost minimization and Profit maximization)