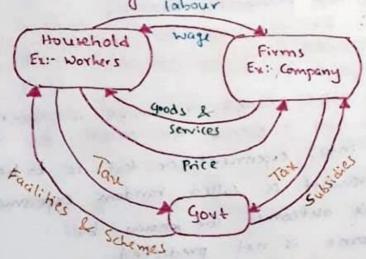


- * Rof name : Radeef six
- * Evaluation plan: Tiera exam 100%
- * References: Principles of economics by Mankiew
- Price, demand and supply are related.
- -> Recently price of tornato got inc as supply became less due to heavy rainful and demand is more.
- Also, price depends on other factors such as tax, individual income, etc.,
- -> Scarcity => limited resources & unlimited needs.
- micro-economics is derived from greek word eikonomio. & it deals with household management.
- -> Circular flow diagram:



- -) We can also add fregn companies and financial institutions & markets into the diagram.
- -) Forlegn companies pays FAI, FPI to firms It provides employement to household, it also pays some tax to gov. Also, households deposit must money in financial institutions si markets and get profits in return.
- -) FDI => Foreign Direct investment Investing to set up production plants.
 - -) FPI => Forlegn Portfolio investment Foreign companies buy shares and get profited. In this, they don't invest directly.

Micro economics (2nd class)

Why to coundy ? =) To understand the world.

=) To be smart participant in the How to take t a good economic decision

Ex: Deciding whether to join IIT MNC - Multi Natural & spend cor, join work & earn. If u jon MNC, u can take Companies wise decision on how much many to consume & save. Starting own busines / start up.

=) Economic policy to understant gort policies. How they impact economy

2 ways Economists think in are:

1 Positive 1 1 D Normative "What is i" " what should be" analog zing Improventent

=> Positive means analyzing what's going in present and normative means thinking to make that situation better. They are not same.

10 principles of economics:

1) People face trade off:

Ex: 3) Students face with true management in IC/LA

i) Consumers whey they want to buy L products orange / Apple to

(ii) forms face this to produce i types of jobs : Phone / Mackook

efficiency) vs (equality -) equal dirtiperting max benefit Ex: Distributing movey to poor

There are some policies introduced by got which ensure equality but no bet

benefit will be there for gove. " If I have "to get! something, in have to compromire with something "or give up Districtions of something is what you give up to get it. This cost is oppurtunity cost.

3 Rational people think at the margin For Ex To ky buy I unit grape wanits zunits orage grape u have to not buy 2 same money. =) o. c of I unit grape = 2 units overnge I They do their best to attain their objectives Consumers max satisfaction) Frms man utility profit Margin: => Marginal benefit = extetat - marginal income -There are 3 terms: - O Marginal cost @ Margnal to income 3 Marginal tenefit corp Let us understand these terms using an example Casya is the owner of a movie theatre. When, RRR movie is released 98 out of 100 seats in theatre got filled. Each seat cost 7 200%. When the show was about to begin in 15 minutes, Black rose (kala Gulab) & Drug bird who wave close friends went to theatre to buy a tricket. But they have only 7300/ with them. Now if Lasga accepts them to watch movie then she will get an income of Eson or else seats will be unfilled. There will be no loss ifor Laya if seats are sold for lower price. Hence marginal cost is 0. By selling tickets for them, easye got income of 7300/- = marginal mane 80 Marginal Genefit = 300 - 0 Drug bird is Sware P = 2300/-

Cec-3: - Micro economics People respond to incentives which make person to act.

Ex:- Offers attract people. to do what we want. Any many ceamples are there ruch as government schemes of giving subsidies 3 Trade can make everyone betteroff. Trades happen when there is abosolut advantage. It can all also happen with comparative adv. @ Markets are usually a good way to organise economic activities. the economy was previously managed by govt. Now market e conony" is opportunity there. The decision is in hands of firms & households now. A. Sovemheent can sometimes improve A countrie's standard of living depends on its ability to produce goods to some services Broductivity plays enicial roce in development of a standard. There will be price vise when govt prints

too much money (1\$ = 167 billion zibroo

Theore will be inflation zw

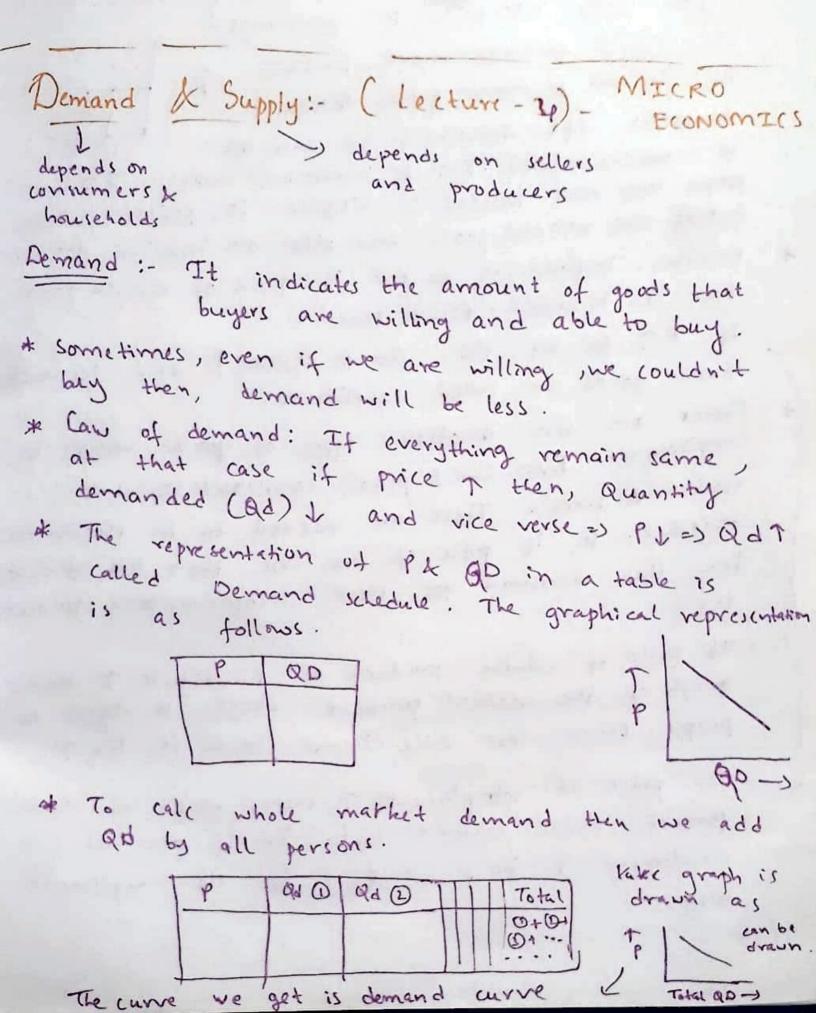
money) @ Society faces shortern trade off bow inflations Inflation is inversely proportional to unemployement. For 5th principle as It cost to make vice trears are as filly: India can be import India Rice Car. cars from think it think to 20 to 10 Chana can import rice + In this ex, 2 countries hav absolute advantage. oppur tunity costs, still trade happens (comparative) India

oppur tunity costs, still trade happens (comparative) India

opposts I 10 5 opp costs) I (2) 0.5 or Ry

c 8 2 and then trade

government can sometime improve market outcome They keep some rules & regulation to keep the economy proper. property rights Market failure -> En: - O externality Compact of one gortoperates persons action on other) which includes pollution @ market poner gor interfers to organise prices to ensure welfare.



then, for 2 the for price E1 for 1 icream person s Tp. | 1 5 ap-) = 7 (market demand. * Income also plays a vole in demand. Income & Qd are positively related. So, it income inc then, graph bbs 1 k ad shifts towards right when the price is unchanged it income I then graph deeshifts &! towards left. Income & ad can also is is he negatively related . Ex: If income inc many Qd -, people buy cars instead of bicycles . So, positerely related goods are normal goods and other are injerior goods. Another influencing factor is price of related goods Exit Tea & Giftee, pen & pencil. If P7 for tea then Qd to coffee I and vice versa. Such goods are called substitutes. * There are also emother types of goods known as compliments. Exir Car & petrol, computer & software, mobile & sim. These are needed to be purchased together. so, if price of one inc then ad of that dee then demand for that complimentory products L) It price of relative product or substitute I then, graph of the original product shifts to right as people thoose less price items hence its Qd 7. -) If price of compliments T then, graph of orginal product shifts toward left. Loz if prize of compliment T Qd V => Qd V for the compliment oilso.

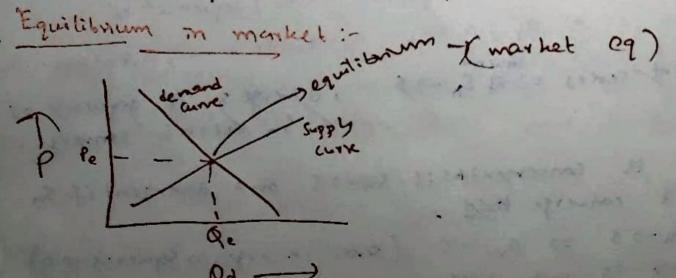
* Taste, preferences, expectation, No. of buyers also influence demand. Taste: I Tea & coffee Preferences: - Ice-cream in summer, Umbrella in rainy Expectation: Depends on quality of product and satisfaction of constorner). (Gold buying) Ex => dec very how. No. of buyers depends on the above factors.

These are the examples where demand is influenced by these factors.

Grecently sahitizers buyers T

Lecture - 5

Supply: This the amount of goods that sellers are willing and able to buy. at haw of supply: - Price T sellers and the supply to gain more profit. (as = quantity supplied) B Supply come. Supply table. * Supply depends on imput profit. It is the prize of making a good. * Technology inc efficiencity and productivity of supply. * Expectation can also influence supply. If a price of a good is expected to rise then company stores that good for future. * It also depends on no of sellers. Equilibrium in market



* If market is not m eq this, (mise is above eq). Prat 1 2 as as x when that price day not all can supply can for some people cost of production is greater than equilibram price which leads to loss. 4. In the similar way , when the price is more, even consumer theme is meeting the price, buying

depends on mindset of consumer and valuation.

produces of d

Firms on green war lone will not produce becaz their jost of production will be more than the selling price.

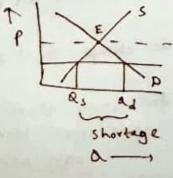
Person 1 will not buy 102 he value that good less than the equilibrium price. So, for him eq. price is more to afford. People on pink line won't buy the good. People in the region of orange line buys the good. similarly.

Consumer surplus - Price consumer is willing to pay - Eq price.

Firms on blue line will produce goods as they get profit and that area shaded by blue colour indicates producer surplus

Producer surplus = price - willingness to accept.

* It market is not in eq thm, (prize is 6100 eq)



It is brought back to equilibrium coz people pay demand is more.

In (B), it is brought back to eq as companies reduce the price as supply is more.

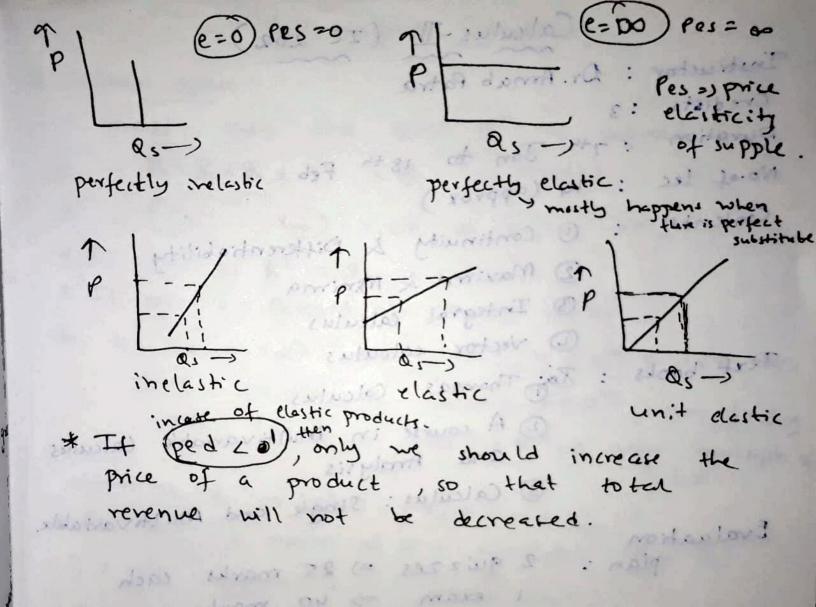
* We can also shift the equilibrium bay shifting the demand and supply curves by changing the factors affecting them.

Elasticity: It is the responsiveness of Qd/Qs for change in one of it's determinants. * Price elasticity of demand 1 Elastic demand Inelestic demand. There will be There will be big change in Qd small change in Qd for change in price for change in price Ex: Cars, gold, etc. Ex: - Food items, such as sugarfrices other thing such Wayny as petrok, memet, Mediune Necleasity * Things that influence elasticity of demand => Neccessity on luxury inelastic elastic 2) Availability of close substitute or not available elastre melastic Exer Tea & coffee Ex: medicine 业) Definition of Market e) If market is narrow Narrow Broad. then price change effects ice-cream Food demand but broad melastic elastic markets are not explosed =) Time horizon: As some passes there can be change in elasticity. Exi- petrol It it's price is inc, for some years it mill be inclusted but after some years there may be change in demand as many nem may shift to electric vehicles. So, as time passes it becomes the elastic.

Lec- 6 (Mizro economics) Price Pereciphage % change in Ad clasticity 9.604 efdemand % A in P SPXQ (we need to consider signs when many from A to B & B to A we get different anshers. Hence it is not that suitable to calculate, elasticity. Hence we use midpoint method. Ped AP × (PI+PL) | Price clashicity l of demand) (Q1+ Q12) * It ped > 1 => elastic -> slope * If ped 21 = sinelastic - slape cottachand curve is >1 * If ped = 1 => unit elastic [ped = ao => perfectly elastic] * If ped = 1 => unit elastic [ped = 00 => elastic]

* If ped = 0 => perfecty inelastic (mostly happen who there is perfect substitute) In this care demand will not be effected by change in price - Here graph look like There are only few examples for perfectly inelastic goods. a -> Ex:- Oxygen, Life saving Elasticity ? determined in terms of % * If ped = as => perfectly selestic pri- D = Total revenue = PXQ < for elastic as PT as rapidly hence - For unit elestic so, R is constant Graphs: - P vs Qd (P on y-ens, Q on x-ens) For inelestic as PT QL slightly Inclusive Perfecty ELASHL hence KT perfectly 1. Unit elastic inelestic

& gross price elasticity of demand = % theye in Rd of good 1 % change in price of good 2 when the two goods are substitutes of each other then the right is positive and if two goods are complimentary then sign will be negative * Income clasticity of demand = % A in Q4 Sign of this is regarded in case of normal goods and negative for inferior goods Norma Inferior Goods Inferior [The goods for which are are Normal Ex: Bicycles inversity related tre (As are are and viceversa for normal income rises) Necessary Cuxum 41 Ex: Food Ez: Car Though your income If we income in will think of increase u will spenday it on luxury items consume almost For small (change) in similer . mureau For small (change) in income, we generally ty income there won't be to avoid luxury goods big change in Q Price Elesticity of Supply: Inelastic: - They are necessities. A shift in price doesn't effect consumer demand or overall supply of good coz people will be alonays willing to buy. Exi- Housing Elastic: - There will be impact on supply on changing piece of good. Exis Books , pen these may have atternatives.



plan: 2 quizzes es 25 morks coch Wicro economics) ROLE OF GOVERNMENT:
Price-ceiling + Deciding legal maximum price The max price for which a good can be sold. * Price ceiling above equilibrium level:

Though price ceiling happens, it will not affect market. Hence it is hot binded. It is because, as Fre

firms have surplus, hence they Sell at normal price which is below the eq legal max price and therefore market comes to equilibrium

Price ceiling below equilibrium: Here, firms can't increase the price above the legal mar price. Hence it is binded. In this case there will be shortage but also firm's can't increase the price. This results in many problems of 7 * Rationaing -> U have a stand for more * Personal bias time to buy a product. ae. Shortage. It depends on oppuratinity cost too Ex: Fruit seller loses his There is a change that people business if he wanted sell to their to buy a good and relatives which stands in que. Ereates decrease The consumer surplus.

(RM4)

Price flooring: - 2 - 282) por many

Imporing legat minimum price for which a good can be sold.

He market automatically go back to equilibrium

when price flooring is done above equilibrium price, it is binding. In this case there will be surplus. Here, people may show persional sies and buy goods from their relatives which result in decrease of producer surplus. Ex: Minimum wage.

(prinimum selling price)

Tax: * Tax incidence tells us how the distribution of tax burden took place among sellers & buyers. * Imposing tax will not affect the demand curve: * It causes supply curves to shifts towards left * Becoz, profit dec as Tax inc Profit = Price - lost of production

* This dictance through which the curve shifts is

equal to tax

equal to tax

The product of the product of surprise the curve surprise the surprise that the product of t

* Hence as tax T, equilibrium Para price is increased.

* Though the buyers are paying more there is no benefit to sellers.

* Buyers are sharing the burden because as supply curve shifted to left, to avercome shortage they pay more.

90t converted into tax revenue. As a result both consumer & producer simplus got reduced.

In this case,

Total surplus = Consumer surplus (CS) +
Producer surplus (PS) +
Tax revenue (TR)

* Imposing tax will reduce the total surplus becoz the area of D is not getting in cluded. This area indicated dead weight loss. The producers in the below part of triangle can't produce coz price got longulator eapply. And people in upper part of triangle on demand curre can't buy as his evaluation is less than the price. Only the people above the brange in the consumer curplus area and forms standing on producer surplus area below the triangle on supply curve can buy and sell the goods respectively.

Lec-8 (Micro-economics) * When tax is imposed on buyers, demand curve shifts towards left and there will be no stange in supply curve. by with tex * Here, the tax that buyers pay to sellers burden is shared by sellers also coz, there is price that surplus as demand sellers get decreased and rupply remained same. So, sellers will share on buyers on sellers the tax burden to over come it. on sellers length of AB = tank (shift in demand * The burden thated by buyers and sellers may not be same but the tax burden on buyers and sellers in both cases remains same respectively * When L

A When tax is imposed on sellers Tan burden is more for the side of the market which is elastic. O Elastic supply + inclastic demand 2) More burden on suyers new supply cure ter burden) old supply come finelastic TITA -) tax burden on sellers - demand curre (clastic) 1 Inelastic suppy + elastic demand >) burden more on Juen sulph comes: there demand be told supply and demand cure (inclustic)

of The major objective of firms is to maximise profit. Total revenue Cost of production. (Pxa) Cost of production: This includes opportunity cost also. Raw materiali, wage, rest - fixe are part in terms of money Exi- Explicit cost which we spend in termor of money. Time invested, skills -) Implicit cost But economists calculate only explicit cost Accounting profit = Total revenue - economic cost Economic profit also includes opportunity cost. One of such cases is investing in bank and getting money. It includes implicit cost also Economic profit = Total revenue - ceplicit cost implicat cost. =) In short run, firms can't change it's all wish factors of production. in short run. To increase production, it can here more workers but can't inc machinery or can't inc plant size, within less time. It is time required for firms to change some factors of production. rubereas. long ners run is the time required for firms to change all the factors of production. > Exemple: product No. of workers Quantity Wage Rent Total produced paid to them (Assuming) cust of leber (L) (let mage paid) 0+ (Q) rent = so MULL more Q'is production produces). 0 0 30 30 500 50 10 30 40 50 L 20 30 90 20 40 30 30 60 120 30 30 70 40 1.40 20 30 80 15 50

155

Plotting graph btw 4kQ:
On x-axis on J-axis Q production

F 562 3372 937 - 124

If we observe the MPL, we observe Hat, there is dec a in a as firms here more workers. This is because plant size and other factors are same. The falling rate of MPL is called as diminishing marginal product out put in movening at at a decreasing rate.

* According to graph, after urtain point the output is not moreasing. To increase the quantity we need to chift cure up. To do that, technology is helpful. like that of new technology which can more produce more.

Extra: Thomas Maultus, some long ago predicted that there would be great famine, people would suffer with starration as food production is 1 in AP & population is 1 in GP. But that didn't occur. It is because of technology which is being developed. It inc food production. Also, some detate that technology is useful & some others debate that it leads to unemployement.

Lecture -9 * Total cost = Fixed cost +: Variable cost out pit a duantity doesn't vary varies with output Ex: - Raw material, Ex:- Rent, Wages, Flectricity property tax used to manufacture goods manufacture

Blectricity used in the manager's office jetc., come under fred ust) * Average cost = Total cost (TC) Output quantity (Q) typical good or output. My, Any fixed west = FC, Any variable lost = VC Marginal cost is the cost of additions unit . produced. $mc = change in TC = \Delta TC$ change in $Q = \Delta Q$ It indicates the cost that firms should invest to change the quantity Dutput by one (increase) unit.

* For any fixed cost, AFC = FC as FC is fixed, AFC & a initially there is sheet more der in cost for small charge + For any nariable cost, Cost Ave AVC = VC According to the diminishing marginal product concept studied in Lec-8, VC T as Q T + For average cost, [AC=AFC +AVC] Initially dec in AFC dominates later inc in Avc dominates. Hence the graph of any cost will first fall and then rise. (in AFC graph, cost dec rapidly at start and become flat. in Avc graph, cost inc slowly Point of 94 from a flet curve then inc rapidly.) This is called At that point, lost of production of one typical good is low. * For marginal lost, we consider change in total COST, MC = $\frac{\Delta TL}{\Delta Q} = \frac{\Delta VC}{\Delta Q}$ $\Delta TC = \frac{\Delta FQ}{\Delta Q} + \Delta VC$ COZ = FC doesn't (refer lec-9 to revire the vary with Q. (sought of MC)

<math>COZ = FC doesn't (refer lec-9 to revire the vary with Q. (sought of MC)* From fig, graph of me pusses through the minim rome and star ACIT & MET and wen MY S P, ME is be * when, a is below efficient scale, as MC is below AC and when a is above then, Mc is above ac

* When Mc graph to above. efficient scale them, ACT às MCT! & when mc graph is below efficient sale then AC V as - MC 1 * In long run,. Here will be no freed cost. Everythy such as rent of land also changes as there is a chance of firm expandry their business by buying more land. tet us consider (m) BAC (short run avg cost)

SAC (short run avg cost)

SAC (short run avg cost)

Feating to scale ,

cost of scale ,

cost of scale ,

cost) 2-(fulling partian) cost I as QT -s it might be me the persons who are more skilled and specialised in an Alloted work. Diseconomies -) it might be due to the co-ordination (rising portion) problems with workers & mangers jost t as RT * Markets are divided based on competition: @ bertect competition @ Monopoly sellers have competition to sell their good. If they I the price, then buyers more to other shop so, they can't I the price Ext. Selling regetables Here , no schers can increase or decrease the price. The sellers in these markets are price takers. Here than =) There are large no of laugers asellers. => sell similar / homogenous products. =) They are free & exit (Annyone can start a shop er grab)

In: perfect Price = Any revenue = Marginal · competition; TR (Total revenue) Avg revenue (TR) marginal (Revenue per unit), revenue 3 600 60018 1000 wit personal and 20 9 4 1 to ac entries by frequent more control