

THE ABOUT



- Understanding the interaction of demand and supply
- How PED and PES affects various economic agents
- Must know how Determinants affect DD,SS,PED,PES
- Government Intervention

CHAPTER ANALYSIS



EXAM

- Commonly tested in Essays
- Important to get your fundamentals right
- Concept is tested in CSQ as well
- Cleary identifying the Demand and Supply factor



Heavy overall weightage

KEY CONCEPT

Demand & Supply Price Elasticities Government Intervention





Different quantities of good or service that consumers are willing and able to buy at various price levels over a given period of time, Ceteris Paribus.

Non-price determinant Factors				
Price of related goods	Substitutes - ↑ in price of X → ↓ in quantity demanded of X - X & Y are substitutes because they satisfy the same consumer wants - Price of X ↑ → Consumers switch to Y → Demand of Y ↑ Complements - When price of X ↓ → Quantity demanded of X ↑ - X & Y are complements because they can only be enjoyed with each other - Demand for Y ↑	Taste & preference	 Influence the desirability NOT willingness to pay for the good Result of fashion/ Fad/ Advertising → create want 	
Demographic	 Population ↑ → demand ↑ Age composition: cities – populated with young people countryside – populated with older people 	Expectation	 Increased optimism about future economic condition → increase demand Expectation of a fall in future price of Good X → Demand for good X decreases 	
	 Change in weather that requires less/more of a good to be bought Eg: Winter decreasing the demand for portable fan Eg: Winter increasing demand for coats 	Government Policies	• Eg: Compulsory vaccinations → Rise in Demand for healthcare services	
		Income	 Normal good: Demand positively related to change in income Inferior good: Demand negatively related to change in income as they are basic necessities. As income increases, basic necessity is fulfilled → seek greater quality of life → Demand for normal goods/luxury goods increase 	

Supply

Various quantities of goods or services producers are willing and able to offer for sale at various prices over a period of time, ceteris paribus.

Non-price determinant Factors					
Price of Related Goods	 Competitive supply: 2 goods that utilise the same resources in production Px of Good X ↑ → Quantity supplied of X ↑ To ↑ production of X, resources used in production of Y have to be diverted to the production of X → supply of Y ↓ Joint supply: Goods X and Y are jointly produced Px of Good X ↑ → Quantity supplied of X ↑ Supply of Y ↑ Supply of Y ↑ Supply of Y ↑ Supply of Y ↑ Supply of Y ↑ Supply of Y ↑	Supply Shock	 Unexpected factors beyond human control such as droughts, floods etc Affect primary products such as crops → SS of G&S ↓ 		
Number of Producers	Number of Producers ↑ → SS ↑	Cost of Production			
Expectation	 Producers expect prices of good X to ↑ → delay selling good X now So that they can sell the same goods at higher price in future ↓ Current SS 		 State of Technology: New and effective method of production → unit COP ↓ → ↑ SS † Efficiency: lower unit cost by improving productivity → utilise resources more efficiently allow more products produced with the same amount of input. → ↑ SS Tax/Subsidies: Eg: ↓ Tax → ↓ unit COP → ↑ Production of goods since now profits is higher, Ceteris Paribus. → ↑ SS 		

Measures degree of responsiveness of quantity demanded of a good to changes in its own price, ceteris paribus.

$$\mathsf{PED} = \frac{\% \ change \ in \ quantity \ demanded \ of \ good \ A}{\% \ change \ in \ price \ of \ good \ A}$$

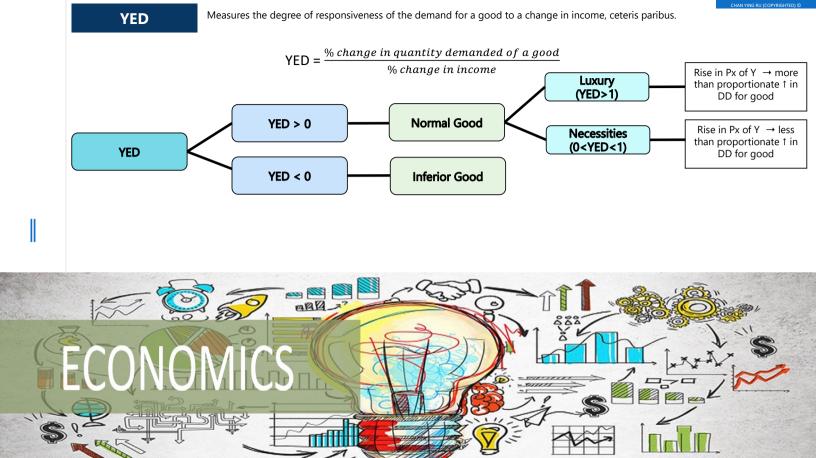
Determinants		
Degree of Necessity	 Essential goods: High degree of necessity as consumption cannot be delayed in order to sustain basic quality of life → price inelastic in demand Habitual goods: Due to addiction/habit → difficult to cut down on consumption/change consumption pattern In response to price change → price inelastic in demand 	
Income Proportion	If high proportion of income is spent on a good → consumers have greater difficulty paying for it ∴ ↑ Price → ↓ Consumption → <u>Price Elastic in Demand</u>	
Time Period	 When price ↑ → consumers require time to adjust consumption patterns or find alternatives In the mean time → consumers will continue consuming good → price inelastic in demand In the long-run → good will become price elastic in demand as consumers can adjust consumption patterns 	
Availability of Substitutes	High quantity and closeness of substitutes \rightarrow consumers switch to consuming cheaper alternatives when price increase \rightarrow more price elastic demand	

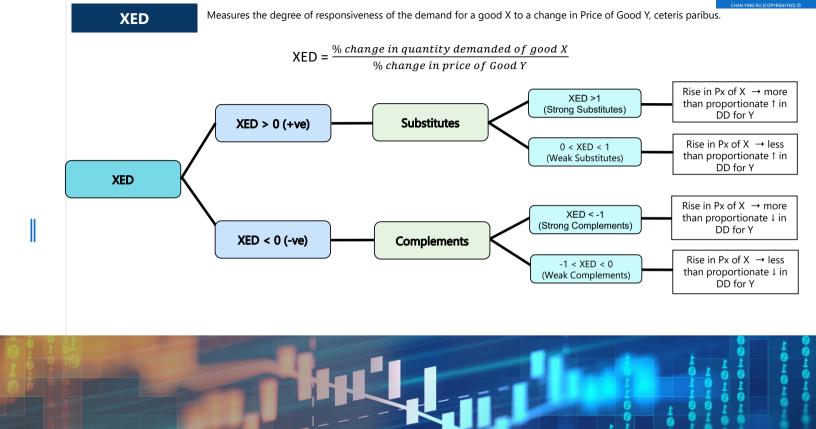
Don't Invite Trouble Ah!

Measures the Degree of responsiveness of quantity supplied of a good to changes in its own price, ceteris paribus.

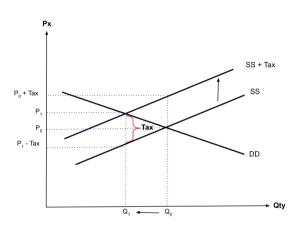
$PES = \frac{\% \ change \ in \ quantity \ supplied \ of \ good \ A}{\% \ change \ in \ price \ of \ good \ A}$

Determinants		
Time Period	• In the long-run: price elastic in demand due to time given to adjust to change in price	
Inventory	Ease of storing products yet to be sold when demand \uparrow (price \uparrow) \rightarrow firms will be able to respond to a rise in demand and price quickly \rightarrow Able to supply these stocks onto the market \rightarrow Price elastic in demand	
Nature of Good	 Firms produce range of goods that can switch factors due to similarity easily → high degree of mobility of factors If price of Good X↑ → producers can switch production from Y to X to ease the temporary strain on existing resources on X plant → Price elastic in supply Gestation period: Primary products have a relatively long gestation period when price ↑ → producers unable to respond to price change immediately For primary products with price inelastic supply, ↑ demand → huge increase in price Government can implement buffer stock schemes to increase supply → stabilise prices 	
Spare capacity	Existence of unused capacity \rightarrow variable inputs are readily available \rightarrow able to increase production quickly in response to increase in price \rightarrow Price Elastic in Supply	





TAX

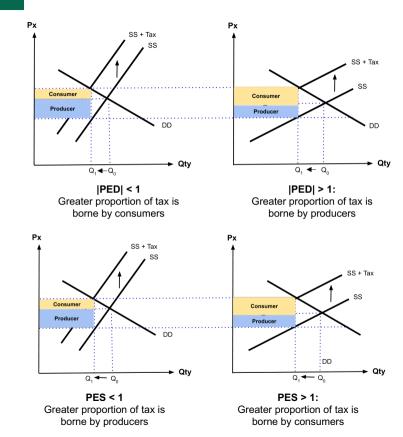


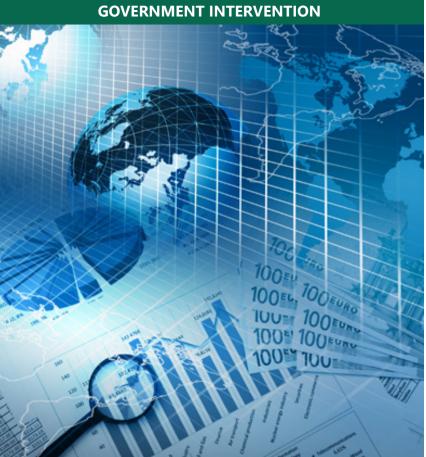
Effect of tax is to:

- Raise equilibrium price
- Reduce quantity exchanged

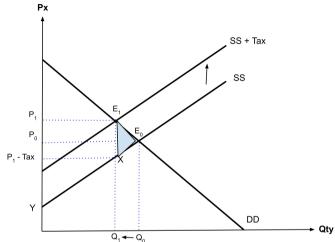
Tax incidence:

Division of a tax between the buyer and producer.





DEADWEIGHT LOSS

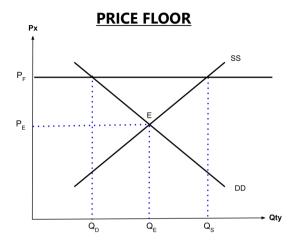


Loss of consumer surplus: P1E1E0P0 loss of producer welfare: P0E0X(P1-tax)

Loss of consumer and producer surplus is mitigated by gain in government tax revenue = P1E1X(P1-tax) However, there is deadweight welfare loss of E1E0X.

QUOTA	SUBSIDY
Definition : Measure to control quantity of goods exchanged in a market.	PROS Producer's income is raised Consumers enjoy lower price and increased quantity exchanged
	 CONS Additional resources have to be allocated to subsidized industries Distort the efficient allocation of resources and encourage wasteful spending leading to DWL Firms have no incentive to maximise efficiency and reduce wasteful spending Strain on government budget: funds taken from tax revenue government budget may end up in a deficit Opportunity cost: limited tax funds could have been used for more important purposes i.e. education, healthcare, etc.





Definition:

Legally established minimum price above the market equilibrium price \to prohibit producers from selling below stipulated price.

Aims:

- · Achieve equity by protecting the welfare of certain groups
- Create a consistent surplus for stocks to accumulate and prepare for future shortages

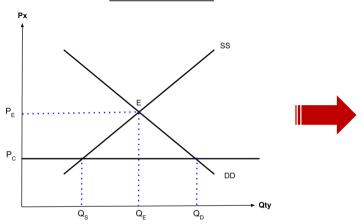
Problems:

- Allocatively inefficiency (DWL)
- · Distorts price signals, creating illusion of a lucrative market
 - > Producers become complacent
 - ➤ May attract new producers → Create excessive surplus
- Stock storage = Waste money

Example: Minimum Wage

- The labour market is initially at equilibrium with a wage of P_E & Q_E jobs available.
- However, after a minimum wage P_F is imposed → number of job seekers ↑ to Q_S but the qty of workers demanded by firms drops to O_D
- Resulting a surplus of $(Q_S Q_D)$
- $(Q_E Q_D)$ jobs are lost
- Only a quantity of Q_D workers enjoy the higher wages.

PRICE CEILING



Definition:

Legally established maximum price below the market equilibrium \to prohibit producers from selling above stipulated price.

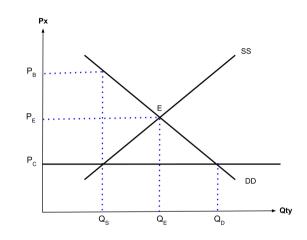
Aims:

Achieve equity by keeping prices of a good affordable to the majority

Problems:

- Allocative Inefficiency (DWL)
- · Distorts price signals, unable to allocate scarce resources
- Emergence of Black Market

BLACK MARKET



Example: Rent Controls

- The market is initially at equilibrium, P_E & Q_E
- However, after a maximum price P_C is imposed → A shortage of (Q_D Q_S) arises.
- A black market may be created, where goods bought at the controlled price of P_C are sold at a higher price of P_B.

ESSAY SAMPLE

In 2012 the UK had very poor harvests for grain and potatoes, which are major ingredients of many of the foods of UK consumers and also provide feed for much of Britain's livestock. At the same time there was a decline in the real incomes of many UK citizens, especially those on low incomes.

Using economic analysis, discuss the impact these events are likely to have on UK consumers and farmers.

Interpret the Question

What is the Cue word?

What is the Concept word?

"Using economic analysis"

- Present 2 sided argument on pros and cons of the impact
- Supporting argument with economic concepts & models

"Impact...on UK consumers & Farmers"

- Demand & Supply concept
- Consumer/producer surplus, revenue, profits, welfare etc.

What is the context word?

- Factors affecting demand and supply in UK: Poor harvests
- · Feed for Britain's livestock
- Decline in real incomes of UK, esp low income





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