MINIMUM LEVEL OF LEARNING - MACROECONOMICS

- 1. Distinguish between Stock & Flow.
- 2. Differentiate between consumption goods and capital goods.
- 3. Write the steps while calculating National Income by Value Added Method? OR
 Write the steps while calculating National Income by Income Method? OR

Write the steps while calculating National Income by Expenditure Method?

- 4. What precautions should be taken while calculating National Income by Value Added Method? OR What precautions should be taken while calculating National Income by Income Method? OR What precautions should be taken while calculating National Income by Expenditure Method?
- 5. Explain the credit creation by commercial bank with a numerical example.
- 6. Explain the functions of Central Bank.
- 7. What do you mean by double coincidence of wants?

 What are the drawbacks of barter system? How money overcome to this problem?
- 8. Explain the Income determination by AD = AS approach. How to reach at Equilibrium when AD>AS & AS>AD?
- 9. Explain the Income determination by I=S approach. How to reach at equilibrium when I > & I<S?
- 10. How will you derive the consumption curve from saving curve?

 How will you derive the saving curve from consumption curve?
- 11. Distinguish between Excess demand & Deficient demand. How will you correct the Excess demand (AD required <
 - AD _{actual}) (Inflationary Gap) situation with fiscal policy and monetary policy? OR

Distinguish between Excess demand & Deficient demand. How will you correct the Deficient demand (AD $_{\rm required}$

- > AD actual) (Deflationary Gap) situation with fiscal policy and monetary policy?
- 12. Explain the objectives of budget.
- 13. Explain the implications of:
 - Revenue Deficit.
 Primary Deficit.
 Fiscal Deficit,
- 14. Differentiate between Revenue Budget & Capital Budget.
- 15. What are the components of current account of Balance of Payment?
- 16. What are the components of capital account of Balance of Payment?
- 17. Differences between Balance of Trade and Balance of Payment.
- 18. Differences between Autonomous items & Accommodating items.
- 19. Why foreign exchange demanded?
- 20. What are the supply sources of foreign exchange?
- 21. Impact of Appreciation / Revaluation and Depreciation / Devaluation on its export & Import of a country.
- 22. Differentiate between Appreciation & Depreciation.
- 23. Differentiate between revaluation & devaluation.
- 24. Explain foreign exchange rate determination.
- 25. Write short notes on fixed exchange rate, Flexible exchange rate & Managed floating exchange rate.
- 26. Merits & demerits of fixed exchange rate, Flexible exchange rate & managed floating exchange rate.

MINIMUM LEVEL OF LEARNING - MICROECONOMICS

- 1. Explain central problems of an economy with the help of PPC.
- 2. What are the possible situations when PPC shifts rightward or leftward.
- 3. Differentiate between Positive economics & Normative economic.
- 4. What do you mean by Marginal opportunity cost.
- 5. Explain relation between MU & TU.
- 6. Explain Law of diminishing Marginal utility.
- 7. What is Production Possibility Curve? Explain its properties.
- 8. What is Budget line?
- 9. Cases related to equilibrium of consumers:

i). MUx > Px OR MUx < Px

ii). <u>MUx / Px > MUy / Py</u> OR <u>MUx / Px < MUy / Py</u>

iii). MRSxy > Px/Py OR MRSxy < Px/Py

- 10. Explain factors affecting individual demand and market demand.
- 11. Differentiate between change in demand & change in quantity demanded.
- 12. Explain the chain effect of change in prices of related goods & its impact on demand of given commodity.
- 13. Explain Factors affecting elasticity of demand.
- 14. Differences between change in supply & change in quantity supplied.
- 15. Explain Factors affecting supply.
- 16. Differences between Returns to factor & returns to scale.
- 17. Reasons behind the phases of Increasing Returns to a Factor, Diminishing Returns to a Factor and Negative Returns to a Factor.
- 18. Explain the relationship between different cost concepts.
- 19. Explain relationship between different revenue concepts in different markets.
- 20. Explain producer's equilibrium with MR = MC approach.
- 21. Differentiate between market forms on the basis of no. of buyers & sellers, control over price, selling cost, product, knowledge about market, entry & exit & shape of demand curve.
- 22. What are the regions for emergence of monopoly?
- 23. Differentiate between Collusive & non collusive oligopoly & Perfect & differentiated oligopoly.
- 24. Chain reaction of excess demand & excess supply situations.
- 25. Explain Price ceiling & price floor concept.

Contact if you have any doubt

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MINIMUM LEVEL OF LEARNING - MACROECONOMICS

1. Distinguish between Stock & Flow.

<u>STOCK</u>	<u>FLOW</u>		
* It refers to that variable which is measured at a	* It refers to that variable which is measured		
point of time.	over a period of time.		
It does not have time dimension.	* It has a time dimension as its magnitude can		
	be measured over a period of time		
* It is a static concept.	* It is a dynamic concept.		
* Examples – Population of India as on 31.3.2014,	* Examples – No of birth during 2014, national		
Money Supply, National Wealth	income, Expenditure in money.		

2. Differentiate between consumption goods and capital goods.

CONSUMPTION GOODS	CAPITAL GOODS		
* These goods satisfy human wants directly.	* Such goods satisfy human wants indirectly.		
* These goods have direct demand.	* Such goods have derived demand.		
They do not promote production capacity.	* They help in rising production capacity.		
* Most of the consumption goods (except durable	* Capital goods generally have an expected li		
goods) have limited expected life.	more than one year.		

3. Write the steps while calculating National Income by Value Added Method? STEPS-

(1) Identify and classify the production units. (2) Estimate Gross Domestic product at Market Price $\Sigma GVA_{MP} = GDP_{MP}$. (3) Calculate Domestic Income (NDP_{FC}) = NDP_{FC} = GDP_{MP} - Depreciation - Net Indirect Tax. (4) Estimate net factor income from abroad (NFIY) to arrive at National Income. NNP_{FC} = NDP_{FC} + NFIA. **OR**

Write the steps while calculating National Income by Income Method?

STEPS-

(1) Identify and classify the production units. (2) Estimate the factor income paid by each sector. (3) Calculate Domestic Income (NDP_{FC}) = NDP_{FC} = C.O.E. + Rent and Royalty + Interest + Profit + Mixed Income (4) Estimate net factor income from abroad (NFIY) to arrive at National Income. NNP_{FC} = NDP_{FC} + NFIA.

Write the steps while calculating National Income by Expenditure Method? STEPS-

(1) Identify the Economic units incurring Final Expenditure (2) Classification of Final Expenditure (PFCE + GFCE + GDCF + Net Export = GDP_{MP}) (3) Calculate Domestic Income (NDP_{FC}) = NDP_{FC} = GDP_{MP} — Depreciation — Net Indirect Tax. (4) Estimate net factor income from abroad (NFIY) to arrive at National Income. NNP_{FC} = NDP_{FC} + NFIA

4. What precautions should be taken while calculating National Income by Value Added Method? PRECAUTIONS-

- (1) Intermediate Goods are not to be included in N.I. (2) Sale and Purchase of second hand goods is not included.
- (3) Production of services for self consumption (Domestic Services) is not included. (4) Production of Goods for self consumption is not included. (5) Imputed value of owner occupied houses should be included. (6) Change in stock of Goods (inventory) will be included.

 OR

What precautions should be taken while calculating National Income by Income Method? PRECAUTIONS-

- (1) Transfer Incomes are not included in the N.I. (2) Income from sale of second hand goods will not be included.
- (3) Income from sale of shares, bonds and debentures will not be included. (4) Windfall gains. (5) Imputed value of services provided by owners of production units will be included. (6) Payments out of past savings are not included in the N.I. (7) Indirect Taxes are not included in N.I. at factor cost.

What precautions should be taken while calculating National Income by Expenditure Method? PRECAUTIONS

(1) Expenditure on Intermediate Goods will not be included in the National Income. (2)Transfer payments are not included. (3) Purchase of second hand goods will not be included. (4) Purchase of financial assets (shares, debentures, Bonds) will not be included. (5) Expenditure on own account production will be included in the National Income.

5. Explain the credit creation by commercial bank with a numerical example.

MONEY CREATION OR CREDIT CREATION - Money creation (or deposit creation or credit creation) by the commercial banks is determined by (1) The amount of the <u>initial fresh deposit</u> and (2) The <u>Legal Reserve Ratio</u> (<u>LRR</u>) - It is the minimum ratio of deposit legally required to be kept as cash by the banks. LRR includes <u>Cash</u> <u>Reserve Ratio</u> - It is the minimum proportion of cash reserves which is kept by commercial banks with the central bank against its total deposits; and <u>Statutory Liquidity Ratio</u> - It is that proportion of the total deposits which a commercial bank has to keep with itself in the form of liquid assets (i.e. cash, gold and unencumbered approved securities). It is assumed that all the money that goes out of banks is redeposit into the banks.

<u>PROCESS</u> - Let the LRR be 20% and there is a fresh deposit of Rs.10000. As required the banks keep 20% i.e. Rs 2000 as cash. Suppose the banks lend the remaining Rs8000 those who borrow use this case money for making payments as assumed those who receive payments put the money back into the banks in this way banks receive fresh deposits of Rs 8000. The banks again keeps 20% i.e. Rs1600 as cash and lend Rs.6400 which is also 80% of the last deposit the money again comes back to the banks' lending to a fresh deposit of Rs 6400. The money goes on multiplying in this way and ultimately total money creation is Rs =50000. Credit creation by banks is done by the formula.

As seen in the table, banks are able to create total deposits of Rs. 50000 with the initial deposits of just Rs. 10000. It means, total deposits become 'five times' of the initial deposit. Five times means Value of 'Money Multiplier'.

<u>Money Multiplier or Deposit Multiplier –</u> It measures the amount of money that the banks are able to create in the form of deposits with every unit if money it keeps as reserves.

<u>Initials</u>	<u>Deposits</u>	Loans	LRR=20%	Money Creation = Initial Deposit x 1/LRR,
<u>Deposits</u>				Money Multiplier = 1/LRR
Round - 1	10000	8000	2000	Money Creation = Initial Deposit x Money Multiplier
Round - 2	8000	6400	1600	Money Multiplier = 1/ (20/100), 1/0.20 = 5
Round -3	6400	5120	1280	Money Creation = Initial Deposit x Money Multiplier
				Money Creation = 10000 x 5 = 50000
Total	50000	40000	10000	

6. Explain the functions of Central Bank.

<u>1. Currency Authority or Bank of Note Issue</u> - Central bank is a sole authority to issue currency in the country. The main advantages of sole authority of note issue. (a)Uniformity in note circulation, (b) Better supervision and control, (c) It is easy to control credit, (d) Ensure public faith, (e) Stabilization in internal and external value of currency.

2. Banker's Bank-

RBI acts as Bankers bank in 3 capacities-

<u>Banker's Bank and Supervisor –</u> There are no of commercial bank in country. There should be some agency top regulate and supervise their proper functioning. Being the apex bank, The RBI regulates and controls the commercial banks. The regulation of banks may be related to their licensing, branch expansion, liquidity of assets, management, Merging, winding up etc. The control is exercised by periodic inspections of banks and the returns filed by them.

<u>Custodian of Cash Reserve</u> – Commercial Banks must keep a certain proportion of cash reserves with the central banks from their total Deposit (known as Cash Reserve Ratio or CRR).

<u>Lender of Last Resort</u> - The central bank also acts as lender of last resort for the other banks of the country. It means that if a commercial bank fails to get financial accommodation from anywhere, it approaches

the central bank as a last resort. Central bank advances loan to such a bank against approved securities. As a lender of the last resort, central bank exercises control over the entire banking system of the country.

<u>3. Banker to the Government –</u> The central bank act as a banker, an agent and a financial advisor to the central government and all the state governments except J&K).

<u>Banker to the Government –</u> As a Banker - to the govt., it acts like commercial bank to the public. Accepts receipts & makes payment for the govt. It provides short term credit to the govt. It provides foreign exchange resources to the govt. to repay external debt. It manages public debt. It advises the govt. on banking & financial matters.

<u>As an Agent –</u> The central bank also has the responsibility of managing the public debt and collect taxes. <u>As a financial Advisor –</u> The central bank advises the government from time to time on economic, financial and monetary matters.

- 4. Clearing House Every bank keeps cash reserves with the central bank. The claims of banks against one another can be easily and conveniently settled by simple transfers from in to their account. Supposing, Bank A receives a cheque of Rs 10,000 drawn on Bank B and Bank B receives a cheque of Rs. 15000 drawn on Bank A. The most convenient method of settling or clearing their mutual claims is that Bank A should issue a cheque amounting to Rs 5000 in favour of Bank B, drawn on central Bank. As a result of this transference, a sum of Rs 5000 will be debited to the account of Bank A and credited to the account of B. There is no need of cash transactions between the banks concerned. It facilitates cash transaction across the entire banking system, it also reduces requirement of cash reserves of the commercial banks.
- <u>5. Custodian of Foreign Exchange Reserves</u> Another important function of Central Bank is the custodian of foreign exchange reserves. Central Bank acts as custodian of country's stock of gold and foreign exchange reserves. It helps in stabilizing the external value of money and maintaining favorable balance of payments in the economy.
- <u>6. Controller of Money Supply and Credit</u> Central bank or RBI plays an important role during the times of economic fluctuations. It influences the money supply Through Quantitative instruments (like Bank Rate, Open Market Operations, legal Reserve ratios, Cash reserve Ratios, Statutory Liquidity ratios) and Qualitative instruments (like Moral Suasion, Credit Rationing, Direct Action, Margin Requirements).
- 7. What do you mean by double coincidence of wants?

OR

What are the drawbacks of barter system? How money overcome to this problem?

Draw Backs of Barter System -

- 1. Problem of Double Co incidence of Wants A can exchange goods with B only when A has what B wants and B has what A wants.
- 2. Lack of Common Measure of Value
- 3. Lack of Standard of Deferred Payment
- 4. Difficulty in Storing Wealth.
- 5. Lack of Divisibility.
- 8. Explain the Income determination by AD = AS approach. How to reach at Equilibrium when AD>AS & AS>AD?

 AD = AS Approach Equilibrium level is determined when AD is equal to AS.

<u>AD>AS = It means that consumers and firms together would be buying more goods than the firms are willing to produce.</u> As a result planned inventory would fall below the desired level. To bring the inventory back to the desired level, firms would resort to increase in employment and output till the economy is back at output level at OY, where AD is become to AS and there is no further tendency to change.

<u>AS>AD</u> = It means that consumers and firms together would be buying less goods than the firms are willing to produce. As a result planned inventory would rise. To clear the unwanted increase in inventory, firms Plan to decrease the employment and output till the economy is back at output level at OY, where AD is become to AS and there is no further tendency to change.

9. Explain the Income determination by I=S approach. How to reach at equilibrium when I > & I<S?

I = S Approach — Equilibrium level is determined when I = S.

 $\underline{I > S} = If$ planned saving is less than planned investment, i.e. before point E. It means that households are consuming more and saving less than what the firms expected them to. As a result planned inventory would fall below the desired level. To bring the inventory back to the desired level, firms would plan to increase in employment and output till saving and investment equal to each other and there is no further tendency to change.

 $\underline{S > I =}$ If planned investment is less than planned saving, i.e. after point E. It means that households are not consuming as much as the firms expected them to. As a result inventory rises above the desired level. To clear the unwanted increase in inventory, firms would plan to reduce the production till saving and investment equal to each other and there is no further tendency to change.

10. How will you derive the saving curve from consumption curve? How will you derive the consumption curve from saving curve?

OR

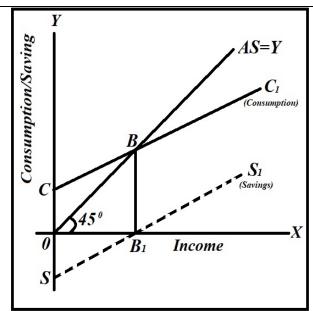
saving curve from consumption curve

We can derive saving curve from the given consumption curve by taking following steps –

- 1. Take a point B on consumption curve and from it draw a perpendicular on x axis intersecting it at point B1.
- 2. Take OS on y axis of lower part as equal to OC (as OC=OS as Autonomous Consumption is equal to dissaving). This gives point S from where saving curve will start.
- 3. Join pint S and B1 and extend the straight line upward and thus we get saving curve SB1S1.

In this way saving curve is diagrammatically drawn from consumption curve.

APC at point B is = 1, because consumption is equal to income and savings = 0.

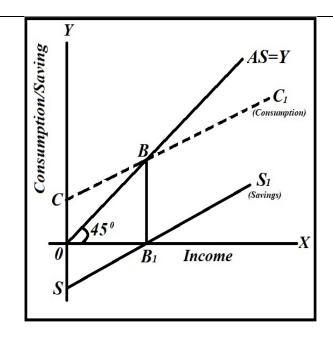


consumption curve from saving curve

We can derive consumption curve from the given saving curve by taking following steps –

- 1. Take a point B1 on Saving curve and from it draw
- a perpendicular on x axis parallel to Y axis intersecting Income curve at point B.
- 2. Take OC on y axis as equal to OS (as OS=OC as dissaving is equal to Autonomous Consumption). This gives point C from where consumption curve will start.
- 3. Join pint C and B and extend the straight line upward and thus we get consumption curve CBC1. In this way consumption curve is diagrammatically drawn from saving curve.

APC at point B is = 1, because consumption is equal to income and Savings = 0.



11. Distinguish between Excess demand & Deficient demand. How will you correct the Excess demand (AD required < AD actual) (Inflationary Gap) situation with fiscal policy and monetary policy? OR

Distinguish between Excess demand & Deficient demand. How will you correct the Deficient demand (AD required > AD actual) (Deflationary Gap) situation with fiscal policy and monetary policy?

EXCESS DEMAND - It is a situation when actual aggregate demand is more than aggregate demand required at

the full employment equilibrium. It is also known as Inflationary Gap.

DEFICIENT DEMAND - It is a situation when actual aggregate demand is less than aggregate demand required at the full employment equilibrium. It is also known as Deflationary Gap.

EXCESS DEMAND	CORRECTION MEASURES					DEFICIENT DEMAND	
	FISCA	FISCAL MEASURE (ADOPTED BY GOVERNMENT)					
It refers to the situation when	Decrease Expenditure Policy			Increase	It refers to the situation		
AD >AS at full employment						when AD <as at="" full<="" td=""></as>	
equilibrium.	Increase		Taxation	1 Policy		Decrease	employment equilibrium.
It leads to Inflationary gap.	Increase		Public Bo	rrowings		NO	It leads to Deflationary
Its indicate Over Full	NO		Deficit Fi	nancing		Yes	Gap. Its show Under
Employment equilibrium.		DV DOL			/ ADO	PTED BY RBI)	Employment Equilibrium.
It occurs due to excess of			BANK		` -	<u> </u>	It occurs due to shortage of
anticipated expenditure, i.e.	Increase		REPO			Decrease	anticipated expenditure,
due to rise in consumption	Increase		RVERSE RA			Decrease	i.e. due to fall in
expenditure, investment	Increase		CASH RESEI			Decrease	consumption expenditure,
expenditure, etc.	Increase	<u> </u>				Decrease	investment expenditure,
experiarer, etc.	Increase		S. L.	. к.		Decrease	etc.
It does not affect the Output,	Sell of	00		F ODED ATIO		Purchase of	It leads to fall in output
Employment and Income level	Securities	OP	EN MARKE	OPERATIO	אכ	Securities	and employment due to
as economy is already				shortage of aggregate			
operating at full employment	MARGIN		B	demand.			
level.	Increas	e	REQUIR	RMENTS		Decrease	
It leads to inflation, i.e. it	Follow I	ру				Follow by	Its leads to deflation, i.e. it
results in rise in general price	Commer	cial	MORAL S	UASSION	ı	Follow by mercial banks	results in fall in general
level.	banks				Com	illierciai baliks	price level.
EX ANTE SAVING – What	Selected Cr	edits	CRE	DIT	Enco	ourage Credits	EX-POST SAVING – It is the
households plan to save at			RATIC	NING			actual or realized savings in
different levels of Income in	Stop functi	oning	DIRECT	ACTION	Stop	functioning as	an economy during a year.
an economy. It is shown by	as banker's	bank	DIRECT	ACTION	ba	anker's bank	EX-POST INVESTMENT – It
saving function.		IM	PACT ON V	ARIOUS SE	CTOR		refers to the actual or
EX-ANTE INVESTMENT –	EXCESS DEI	MAND			DEFIC	IENT DEMAND	realized investment in an
What firms plan to invest at	No Change E		Emplo	yment		Fall	economy during a year.
different levels of income in	No Change		Out	put		Fall	Ex-post saving and Ex-post
an economy. It is shown by investment demand function.	No Change		ł	l Income		Fall	Investment are equal at all levels of income.
investment demand function.	Rise	Rise General Price Level			Fall	i icveis of income.	
	POSSIBILITIES OF EQUILIBRIUM AT EMPLOYMENT LEVEL						
FULL EMPLOYMENT EQUILI	BRIUM		UNDER EN	/IPLOYMEN	T	OVE	R FULL EMPLOYMENT
			EQUILIBRIUM		EQUILIBRIUM		

12. What is Government budget? Explain the objectives of budget.

<u>Meaning of Government Budget</u>:-A government budget is an annual statement of the estimated receipts and estimated expenditure during a fiscal year.

Objective of the Government Budget

The objective that are pursued by the government through the budget are-

1. To Achieve Economic Growth. 2. To Reduce Inequalities in Income and Wealth.

3. To Achieve Economic Stability.
4. To Management of Public Enterprises.

5. To Reallocation of Resources. 6. To Reduce regional Disparities.

13. Explain the implications of:

1. Revenue Deficit. 2. Primary Deficit. 3. Fiscal Deficit.

<u>@ Revenue Deficit</u>:-Revenue deficit refers to the excess of revenue expenditure of the government over its revenue receipts.

Revenue deficit = Total revenue expenditure – Total revenue receipts.

<u>Importance:-</u> Since it is largely related with the recurring expenditure. Therefore, high revenue deficit gives a warning to the government either to cut expenditure or to increase revenue receipts. It also implies requirement burden in future.

@ Fiscal Deficit:-Fiscal deficit is defined as excess of total expenditure over total receipts excluding borrowings.

Fiscal Deficit = Total budget expenditure - Total budget receipts (excluding borrowings)

Importance: - Fiscal deficit is a measure of total borrowings required by the government. Greater fiscal deficit implies greater borrowings by the government. This creates a large burden of interest payments in the future that leads to increase in revenue expenditure, causing an increase in revenue deficit. Thus a vicious circle sets in. In the present, a large fiscal deficit may also lead to inflationary pressures.

<u>@ Primary Deficit:</u> -Primary deficit is defined as fiscal deficit minus interest payment. It is equal to fiscal deficit reduced by interest payment.

Primary deficit = Fiscal deficit - interest payment.

<u>Importance: -</u> Primary deficit signifies borrowing requirements of the government. A low or zero primary deficit means that while government's interest requirement on earlier loans have compelled the government to borrow but it is aware of the need to tighten its belt.

14. Differentiate between Revenue Budget & Capital Budget.

	BUDGET COMPONENT							
	BUDGET	RECEIPT <		BUDGET EXPENDITURE				
CAPITAL	RECIEPT	REVENUE	RECEIPT	CAPITAL EXP	ENDITURE 🗸	REVENUE EXPE	NDITURE	
Either	Or Reduce	Neither	Nor Reduce	Either	Or	Neither Create	Nor	
Creates	Assets	Create	Assets	Creates	Reduce	Assets	Reduce	
Liability		Liability		Assets	Liability		Liability	
* It's alway	s creating a	* Revenue Re	eceipts do not	* It results in creation of * It does not results			result in	
liability.		create any liab	ility.	assets.		creation of assets.		
			reduce assets	* It result in reduce in		* It does not reduce any		
* Capital Rece	* Capital Receipts causes for of		nent.	liability.		liability.		
reduction in th	ne assets of the			* It for long period and * It is for day to day activ			day activity	
government.		* Eg. Dividend	l, Tax and non	non-recurring in nature.		and recurring in nature.		
* Eg.	Borrowings,	tax revenue.		* Eg. Exper	* Eg. Expenditure on		on salaries	
Disinvestment,	Recovery of			acquisition of	assets like	of employees.		
loans etc.			land, building etc.					
1. Borrowing	1. Borrowing 1. Tax and Non Tax Revenue		1. Construction Activities		1. Payment of Interest			
2. Disinvestme	2. Disinvestment 2. Interest Received on loans		2. Lending loans 2. Expenditure on 0		General			
3. Recovery of	Loans	3. Gift and Gra	nts	3. Defense Cap	ital	Services		
4. Small Saving	s- NSC, KVP	4. Profit of PSU	ls	Equipments		3. Subsidies		
		4. Repayment of	of Loan	4. Grants Given to	State Govt.			

15. Differentiate between Direct and Indirect tax.

Direct Tax	Indirect Tax		
* Liability to pay and burden of direct tax falls on	* Liability to pay and burden of direct tax falls on some		
same person.	other person.		
* Direct taxes are levied on individuals and	* Indirect taxes are levied on goods and services.		
companies.			
* Levied on income and property of person.	* Levied on goods and services on their sale,		
	Production, import and export.		
* Direct taxes are generally progressive in nature.	* Indirect taxes are generally proportional in nature.		
* Eg. Income tax, Corporate tax, Wealth Tax, Capital	* Eg. Sales tax, Service Tax, Excise duty, Custom duty		
Gains etc.	etc.		

16. What are the components of current account of Balance of Payment?

<u>CURRENT ACCOUNT -</u> The current account records all transactions related to imports and exports of goods and services and unilateral transfers during a given period of time. The main components of this account are -

- (1) EXPORT AND IMPORT OF GOODS (Visible Items) The balance of export and import of goods is called the balance of visible trade. Payment for import of good is written on the negative side and receipt from export is shown on positive side.
- (2) EXPORT AND IMPORT OF SERVICES (Invisible Trade) The balance of exports and imports of services is called the balance invisible trade. Example Shipping, Banking, Insurance etc. Payments for these services are written on the negative side and receipt on positive side.
- **(3) UNILATERAL TRANSER TO AND FRO ABROAD** Unilateral transfers is receipts which residents of a country make without getting anything in return eg. Gifts, donation, personal remittances etc.
- (4) INCOME RECIEPT AND PAYMENT TO AND FRO ABROAD It includes income in the form of interest, rent and profits.

The net balance of visible trade, invisible trade and of unilateral transfers is the balance on current account. Current Account shows the Net Income.

17. What are the components of capital account of Balance of Payment?

It records are international transactions that involve a resident of the domestic country <u>changing his assets or liability</u> with a foreign resident. <u>It is concerned with financial transfers</u>. So it does not have direct effect on income, output and employment of the country.

Various forms of capital account transactions:-

- (1) PRIVATE TRANSACTIONS There are transactions that affect the liabilities and assets of individuals.
- (2) OFFICIAL TRANSACTIONS Transactions affecting assets and liabilities by the govt. and its agencies.
- (3) PORTFOLIO INVESTMENT (FII) It is the acquisition of an asset that does not give the purchaser control over the asset.
- (4) DIRECT INVESTMENT (FDI)- It is the act of purchasing an asset and at the same time acquiring control of it.
- (5) BANKING INFLOW Inflow of hot money seeking the highest rate of return as NRI deposits.
- (6) OFFICIAL RESERVE TRANSACTION It includes change in a countries gold reserves, foreign exchange reserves, foreign securities and SDRs with IMF.

The net value of the balance of direct and portfolio investment is called the balanced on Capital Account.

18. Differentiate between Balance of Trade and Balance of Payment.

OR

Differentiate between Autonomous items & Accommodating items.

AUTONOMOUS ITEMS	ACCOMODATING ITEMS		
Autonomous items refer to international economic	This refers to transactions that occur because of		
transactions that take place due to some economic	other activity in the BOP, such as government		
motive such as profit maximization.	financing.		
These transactions are independent of the state of	These transactions are responsible for country's		

the country's BOP.	BOP.				
These items are often called above the line items in	These items are called below the line items.				
the BOP.					
CURRENT ACCOUNT	CAPITAL ACCOUNT				
* It records all transaction between the resident of a	* It records all transaction between the resident of a				
country and the rest of the world which does not	country and the rest of the world which change				
change asset and liability	asset and liability				
* It is a flow concept	* It is a stock concept				
* It consist of export and import of goods, services	* It consist of borrowing and lending, change in				
and unilateral transfer	foreign exchange reserve and FDI				
BALANCE OF TRADE	BALANCE OF PAYMENTS				
Balance of trade is a record of only visible items i.e.	. Balance of payments is a record of both visible items				
exports and imports of goods.	(goods) and invisible items (services)				
Balance of trade can be in a deficit, surplus or	Balance of payments must always balance.				
balanced					
Unfavorable BoT can be met out with of favorable	Unfavorable BoP cannot be met out with of				
BoP.	favorable BoT.				
BOT does not record ant transaction of capital	BOP records all the transactions of capital nature.				
nature.					
Balance of trade is a narrower concept as it is only a	Balance of payments is a wider and more useful				
part of the balance of payments account.	concept as it is a record of all transactions in foreign				
	exchange including balance of trade.				

- 19. Why foreign exchange demanded?
- 20. What are the supply sources of foreign exchange
- 21. Explain foreign exchange rate determination.

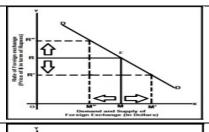
DEMAND OF FOREIGN CURRENCY

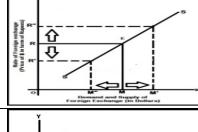
- $\underline{\textbf{1.}}$ Import of goods and services from other countries;
- 2. Tourism;
- 3. Unilateral Transfers sent to abroad;
- 4. To purchase assets in foreign countries;
- 5. To speculate on the value of foreign currencies

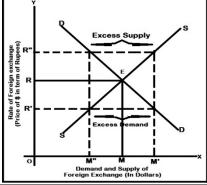
SUPPLY SOURCES OF FOREIGN

- 1. Export of Goods and Services to other countries;
- 2. Tourism;
- 3. Foreign investment like FDI and FII;
- 4. Unilateral Transfers received from abroad;
- 5. Speculation

DETERMINATION OF EXCHANGE RATE Equilibrium in the foreign exchange market is determined in the same way as the price of a commodity through the forces of supply and demand. The foreign exchange market, like any other normal market, contains a downward sloping demand curve and an upward sloping supply curve. The price on the vertical axis is stated in terms of domestic currency (i.e. how many rupees for one US dollar). The horizontal axis measures the quantity demanded or supplied. The intersection of the supply and demand curve determines the equilibrium foreign exchange rate







- 22. Impact of Appreciation / Revaluation and Depreciation / Devaluation on its export & Import of a country.
- 23. Differentiate between Appreciation & Depreciation.
- 24. Differentiate between revaluation & devaluation.

DEPRICIATION	DEVALUATION		
Depreciation refers to fall in the price of	It refers to reduction in the price of domestic currency		
domestic currency in terms of foreign currency.	by the government in terms of foreign currency.		
It takes place due to market demand and market	It is done deliberately by the government or central		
supply of foreign exchange.	bank		
It takes place under Flexible Exchange Rate	It takes place under Fixed Exchange Rate System.		
System			
It is very common.	It is very uncommon.		
DEPRICIATION	APPRICIATION		
Depreciation refers to fall in the price of	Appreciation refers to rise in the price of domestic		
domestic currency in terms of foreign currency.	currency in terms of foreign currency.		
IMPACT ON EXPORT AND IMPORT -It makes	IMPACT ON EXPORT AND IMPORT -It makes foreign		
domestic goods cheaper in foreign country as	goods cheaper in domestic country as more of such		
more of such goods can now be purchased with	goods can now be purchased with same amount of		
same amount of foreign currency. So, it <u>leads to</u>	domestic currency. So, it leads to <u>increase in import</u>		
increase in export and decrease in Import. (Same	and decrease in Export.(Same result will be in case of		
result will be in case of Devaluation)	Revaluation)		
A change from 1 $\$ = 50$ Rs. to 1 $\$ = 55$ Rs. is	A change from 1 \$ = 50 Rs. to 1 \$ = 45 Rs. is		
Depreciation of Indian Currency.	Appreciation of Indian Currency.		
FIXED EXCHANGE RATE	FLEXIBLE EXCHANGE RATE		
It is officially fixed by the government in terms of	It is determined by the forces of demand and supply		
gold or any other currency.	of foreign exchange.		
Traditional exchange rate system (adopted by all	New exchange rate system (adopted by almost all		
countries from 1946 to 1973)	countries after 1973)		
The exchange rate is generally stable or a very	The exchange rate keeps on changing.		
small variation possible			
In this system only government has the power to	Market forces changes the exchange rate. (In		
change exchange rate.	Managed Floating RBI can intervene under certain		
	limits)		

- 25. Write short notes on fixed exchange rate, Flexible exchange rate & Managed floating exchange rate.
- 26. Merits & demerits of fixed exchange rate, Flexible exchange rate & managed floating exchange rate.

<u>FIXED EXCHANGE RATE</u> - Under the fixed exchange rate system the exchange rate is officially declared and it is fixed. Only a very small deviation from this fixed value is possible. It is not determined by supply of and demand for foreign exchange.

<u>MERITS – 1.</u> Stability in the exchange Rate; <u>2.</u> Promote International Investment; <u>3.</u> Promotes International Trade; <u>4.</u> Prevent Speculative Activity; <u>5.</u> Coordination of Macroeconomics Policies. <u>DEMERITS – 1.</u> Huge foreign Exchange Reserves Required; <u>2.</u> Difficulty in fixing the Exchange rate; <u>3.</u> Exchange Rates are not fixed.

<u>FLEXIBLE EXCHANGE RATE</u> - In the flexible exchange rate system exchange rate is determined by the supply and demand for foreign exchange. There is no intervention by the central bank

<u>MERITS – 1.</u> Maintains Equilibrium Level; <u>2.</u> No need or Huge Foreign Exchange Reserves; <u>3.</u> Optimum Utilization of resources <u>DEMERITS – 1.</u> Instability in the Exchange Rate; <u>2.</u> Speculative Activities; <u>3.</u> Creates Inflationary Situation

<u>MANAGED FLOATING EXCHANGE RATE</u> In this system foreign exchange rate is determined by the market demand and supply and central bank can intervene in foreign exchange rate determination whenever it feels desirable. It is also known as dirty floating.

MINIMUM LEVEL OF LEARNING - MICROECONOMICS

1. Explain central problems of an economy with the help of PPC.

CENTRAL PROBLEMS OF AN ECONOMY

Economic problem is the problem of making choice. It arises due to * Endless Human Wants and differences in their urgency; * Limited or Scare Resources; and * Alternative Uses of Resources.

WHAT TO PRODUCE

If refers to which goods and services are to be produced and how much quantity of each good or services is to be produced i.e. consumption goods or capital goods, with the limited resources.

HOW TO PRODUCE

It refers to the choice of methods of production of goods & services i.e. whether <u>Labour Intensive Technique</u> or <u>Capital Intensive Technique</u> is to be adopted taking into consideration the proportion of capital and labour in an economy.

FOR WHOME TO PRODUCE

It concerns with the distribution of income & wealth which refers to who earns how much or who has more assets than others. It is categorized as <u>Personal Distribution</u> — It refers to income share of individuals and households in the society. <u>Functional Distribution</u> — It relates to income share of different factors of production between labour, capital, land and entrepreneur.

2. What are the possible situations when PPC shifts rightward or leftward?

Rightward shift when there is an increase in resources and up gradation in technology. Leftward shift when there is a decrease in resources and degradation in technology.

3. Differentiate between Positive economics & Normative economic.

MICRO ECONOMICS	MACRO ECONOMICS	POSITIVE ECONOMICS	NORMATIVE ECONOMICS
1. It is the study of	1. It is the study of the	1. It is that branch of	1. It is that branch of
individual units of an	whole economy	economics which is	economics which is based
economy		based on facts and data.	on opinions, values and judgments.
2. It deals with	2. It deals with growth	2. "What it is" or "What	2. "What ought to be" or
allocation of resources	and development of	is was"	"What should be"
	resources		
3. It is also called price	3. It is also called	3. Analyses the cause	3. It passes value judgments
theory.	income theory.	and effect relationship	for various economic issues.
		for various economic	
		issues.	
4. Demand and Supply	4. Aggregate Demand	4. Can be proofed with	4. Can't be proofed with
are the tools.	and Aggregate Supply	data.	data.
	are the tools.		
5. It is a narrower	5. It is wider concept.	5. * Prices are increasing.	5. * Rising prices must be
concept.		* Population is growing	controlled. * Population
		very fast.	must be controlled.

4. What do you mean by Marginal opportunity cost.

<u>Marginal Opportunity Cost or Marginal Rate of Transformation</u>—It means the rate at which an additional unit of a good is transformed in another good i.e. number of a good that are sacrificed for the production of an additional unit of good X. It is also known as marginal opportunity cost. MRTxy = $\Delta Y / \Delta X$

MRTxy = Loss of good Y / Gain of good x

MRT Constant = PPC Downward Sloping Straight Line.

MRT Increasing = PPC will be Downward Sloping Concave to the Origin;

MRT Decreasing = PPC will be Downward Sloping Convex to the origin.

5. Explain relation between MU & TU.

Relation Between Total Utility and Marginal Utility -

- * As long as MU is positive, TU increases.
- * When MU is zero, TU is maximum and constant.
- * When MU is negative, TU decreases.
- * TU is summation of MU.
- * MU is the slope of TU.

6. Explain Law of diminishing Marginal utility.

<u>LAW OF DIMINISHING MARGINAL UTILITY</u> -As we consume more units of a commodity, each successive unit consumed gives lesser and lesser satisfaction, that is marginal utility diminishes. It is termed as the Law of Diminishing Marginal Utility.

Exceptions – Hobbies; Drunkards; Misers; Music and Poetry; Reading.

7. What is Production Possibility Curve? Explain its properties.

PROPERTIES OF PPC

<u>A Production Possibility Curve is a downward sloping curve -</u> In a full employment economy, more of one goods can be obtained only by giving up of other goods. It is not possible to increase the production of both of them with the given resources.

The shape of the production possibility curve is concave to the origin- The opportunity cost for a commodity is the amount of other commodity that has been forgone in order to produce the first. The marginal opportunity cost of a particular good along the PPC is defined as the amount sacrificed of the other good per unit increase in the production of the good in question. Increasing marginal opportunity cost implies that PPC is concave.

<u>PPC can be shifted rightward or Leftward -</u> If resources are increased or technology upgraded, there is an rightward shift in PPC and If resources are decreased or technology degraded, there is an leftward shift in PPC.

8. What is Budget line.

<u>BUDGET SET –</u> It is a set of all bundles of 2 goods that a consumer can buy with his given income and prices of commodities.

BUDGET LINE – It is graphical representation of Buget Set.

- * PL or BL = $M \ge Px.Qx + Py.Qy$
- * B.L. is downward sloaping.
- * Slope of BL is Px/Py.
- *Consumer can afford any bundle that lies on or inside Budget Line.
- M = 20; Px=2; Py=4

9. Cases related to equilibrium of consumers:

Consumer equilibrium in case of one commodity:

i). MUx > Px OR MUx < Px

•	CASE OF A SI	INGLE COMM	0 D I	TY		
It refers to a situation	in which a consumer	spends his income on	Unit	Рх	MUx	Remarks
purchase of a commo	dity in such a way tha	at gives him maximum	1	3	5	MUx > Px
satisfaction. Consumer	satisfaction. Consumer equilibrium is determined when the following					
conditions are satisfied.	3	3	3	MUx = Px		
MUx = Px (Price)	4	3	2	MUx < Px		
Total satisfaction decreases with additional purchase after equilibrium.				3	1	MUx < Px
			6	3	0	MUx < Px

	•	·	
			6 3 0 MUx < Px
MUx > Px	MUx = Px	MUx < Px	γ
Consumer gains more	MU implies	Consumer suffers	
satisfaction in	Satisfaction.	losses as he is sacrifice	MUx=Px
comparison to sacrifice.	Price implies	more than gain.	
Purchase of X will	Sacrifice.	Purchase of X will	□ MUx>Px MUx < Px
Increase, MUx will fall	MUx = 3;	reduce, MUx will rise	S MOXTA
and become equal to	Px = 3;	and become equal to	Point of Equilibrium
price.	MUx = Px	price.	E Price
MUx = 4,	3 = 3	MUx = 2,	 Frice
Px = 3;	No change in	Px = 3;	
MUx > Px	purchasing or	MUx > Px	OI UNIT \MU ^
4 > 3	consumption	2 < 3	

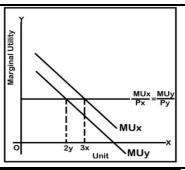
ii). MUx / Px > MUy / Py

OR

MUx / Px < MUy / Py

CASE OF TWO COMMODITY

In actual life a consumer consumes more than one good. In such case Law of Equi-Marginal Utility helps to determine consumer's equilibrium. According to this law a consumer gets maximum satisfaction when ratio of MU of two commodities to their respective prices is equal. A consumer will spend his income in such a way that utility gained from the last rupee spent on each commodity is equal. In case of 2 commodities, a consumer attains equilibrium when marginal utilities of both the goods are equal. i.e.,



 $\underline{MU_x} = \underline{MU_y}$ $\underline{MU_x/P_x} = \underline{MU_y/P_x} = \underline{MU_m}$

Suppose Price of X and Y is 1 Rs. each and Total Money Income is 5 Rs. Consumer will spend his total income and purchase 3X and 2Y and maximize his satisfaction to the 19 units. If he spends his money on any other combination, total utility would be less than 19 units. Thus he buys 3 units of X and 2 of Y.

Units	MUx	MUy
1	5	4
2	4	3
3	3	2
4	2	1
5	1	0

$MU_x/P_x > MU_y/P_y$	$MU_x/P_x = MU_y/P_y$	$MU_x/P_x < MU_y/P_y$	
2 Unit of X & 3 Units of Y $MUx/Px = MUy/Py$ $MUx = 4$, $MUy = 2$ $Px = 1$, $Py = 1$ Put values in the formula $4/1 = 2/1$ $4>2$ Consumer will not be in equilibrium. In this case — Consumption of $X \uparrow \rightarrow$ Decrease in MUx . Consumption of $Y \downarrow \rightarrow$ Increase in MUy . Process will continue till the point — $MUx/Px = MUy/Py$	3 Unit of X & 2 Units of Y MUx/Px = MUy/Py MUx = 3, MUy = 3 Px = 1, Py = 1 Put values in the formula 3/1 = 3/1 3=3 Consumer will be in equilibrium. In this case No change in existing Consumption schedule.	4 Unit of X & 1Units of Y MUx/Px = MUy/Py MUx = 2, MUy = 4 Px = 1, Py = 1 Put values in the formula $2/1 = 4/1$ $2>4$ Consumer will not be in equilibrium. In this case — Consumption of X \downarrow \rightarrow Increase in MUx. Consumption of Y \uparrow \rightarrow Decrease in MUy. Process will continue till the point — MUx/Px = MUy/Py	

Consumer equilibrium with IC approach.

iii). MRSxy > Px/Py

OR MRSxy < <u>Px/Py</u>

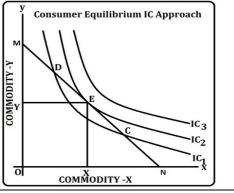
CONSUMER EQILIBRIUM WITH IC APPROACH

Consumer's equilibrium refers to the optimum choice of the consumer when he maximizes his satisfaction. In IC approach consumer reaches on equilibrium when three conditions are satisfied.

1.MRSxy (slope of IC) = Px/Py (MRE - slope of Budget Line)

2.IC is convex to the origin at the point of equilibrium – it means MRSxy must be diminishing.

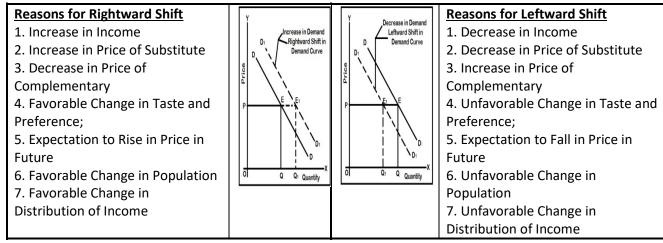
3.Budget line should be tangent to the highest possible IC.



MN is the budget line of consumer. IC1, IC2 and IC3 are various indifference curves representing different scales of satisfaction. Bundle D and C cost the same as bundle E, but D & C lie on a lower IC, so they represent a comparatively lover level of satisfaction. Bundle E is the bundle where both the conditions get satisfied. In equilibrium, the consumer will consumes X quantity of good x and Y quantity of good Y.

MRSxy > Px/Py	MRSxy = Px/Py	MRSxy < Px/Py
MRSxy > Px/Py MRSxy = Px/Py, MRSxy = 6, Px=4, Py=2 MRSxy = $\frac{Px}{Py}$ 6 = $\frac{4}{2}$ $\frac{6 \neq 2}{2}$ Consumer will not be in equilibrium. In this case consumer is willing to pay more than	MRSxy = Px/Py MRSxy = Px/Py MRSxy = 3, Px = 6, Py=2 MRSxy = $\frac{Px}{Py}$ $3 = \frac{6}{2}$ $3 = 3$ Consumer will	MRSxy < Px/Py MRSxy = Px/Py, MRSxy = 2, Px=6, Py=2 MRSxy = $\frac{Px}{Py}$ 2= $\frac{6}{2}$ $\frac{2 \neq 3}{2}$ Consumer will not be in equilibrium. In this case consumer is willing to pay less
the actual price for good X. As a result, he will increase the consumption of X which leads to fall in the utility of good X and finally, MRSxy starts falling till the time MRSxy = $\frac{Px}{Py}$	be in equilibrium. There will be no change in consumption.	than the actual price for good X. As a result, he will decrease the consumption of X which leads to increase in the utility of good X and finally, MRSxy starts rising till the time MRSxy = $\frac{Px}{Py}$

10. Explain factors affecting individual demand and market demand.



Differentiate between change in demand & change in quantity demanded.
 Differentiate between Increase in demand & Expansion in demanded.
 Differentiate between Decrease in demand & Contraction in demanded.
 Differentiate between Normal Good and Inferior Good.

EXPANSION IN DEMAND	INCREASE IN DEMAND	CONTRACTION IN DEMAND	DECREASE IN DEMAND
When there is change in	When change in demand due	When there is change in	When change in demand due
Quantity demanded due	to rise in income, fall in price	Quantity demanded due to	to fall in income, rise in price
to fall in Price of its own.	of comp. Goods, rise in price	rise in Price of its own.	of comp. Goods, fall in price of
	of substitute goods etc.		substitute goods etc.
In this situation consumer	In this situation demand	In this situation consumer	In this situation demand curve
move downward on the	curve shift rightward.	move upward on the same	shift leftward.
same demand curve.		demand curve.	
It is known as "Change in	It is known as "Change in	It is known as "Change in	It is known as "Change in
Quantity Demanded"	Demand"	Quantity Demanded"	Demand"
Change in Quantity Demanded Y Contraction	NORMAL GOODS	INFERIOR GOODS	Change in Demand
	1. Demand varies directly with	1. Demand varies inversely	Decrease
Expansion	income level.	with income level.	
	个Y 个Demand	↑ Y ↓ Demand	Increase
	↓ Y ↓ Demand	↓ Y ↑Demand	
_ _ _ ×	2. Demand curve shift right /left	2. Demand curve shift left /	b2 b b1
Quantity Demanded	with rise/ fall in income.	right with rise/ fall in income.	Quantity Demanded
	Income effect is positive.	3. Income effect is negative.	games, Samurado

12. Explain the chain effect of change in prices of related goods & its impact on demand of given commodity.

	Change In Price Of Related Goods And Its Impact On Demand Of Given Commodity								
	90		5	Substitute Goods	Complimentary Goods				
<u>Te</u>	ea	Co	ffee	P _s and Q _g are positively related. When P _s	Pet	trol	<u>C</u>	ar .	Pc and Qg are inversely related. When Pc rises, Qc
Pg	Qg	Ps	Qs	rises, given commodity is cheaper in	Pg	Qg	Pc	Qc	falls, as to satisfy a particular want both will be
10	10	10	10	comparison to substitute, so Q _g rises. On	10	10	10	10	used together so Q _g also falls. On the other hand if
10	15	15	5	the other hand if P _s falls, given commodity	10	5	15	5	Pc falls, Qcrises, as to satisfy a particular want both
P=	D↑	P↑	DŢ	is costlier in comparison to substitute, so Q _g	P=	D↓	P↑	Dļ	will be used together so, Q _g also rises. (In both
10	5	5	15	falls. (In both cases price of given is remain	10	15	5	15	cases price of given is remain constant)
P=	D↓	₽↓	D↑	constant)	P=	D↑	Pļ	D↑	

13. Explain Factors affecting elasticity of demand.

FACTORS AFECTING ELASTICITY OF DEMAND							
LESS ELASTIC DEMAND	<u>FACTORS</u>	HIGH ELASTIC DEMAND					
Necessities	NATURE OF COMMODITY	Luxurious					
If not Available	AVAILIBILITY OF SUBSTITUTE	If Available					
Minor Part of Income	PORTION OF TOTAL EXPENDITURE	Major Part of Income					
Habituated	HABITS	Not Habituated					
Shorter	TIME PERIOD	Longer					
Few / Single Use	USES OF COMMODITY	Many Uses					
Very High / Low	LEVEL OF INCOME	Middle Income					
Low Priced	LEVEL OF PRICE	High Priced					

14. Differences between change in supply & change in quantity supplied.

Differentiate between change in Supply & change in quantity supply.

OR

Differentiate between Increase in Supply & Expansion in Supply.

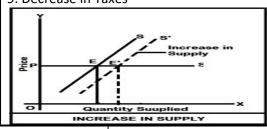
OR

Differentiate between Decrease in Supply & Contraction in Supply.

OR

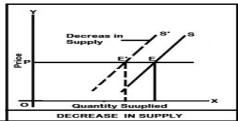
Reasons for Rightward Shift

- 1. Decrease in Price of Substitute Goods
- 2. Increase in Price of Complementary Goods
- 3. Decrease in Price of Factors (Input)
- 4. Improvement in Technology
- 5. Expectation in fall in Price in Future;
- 6. Increase in Number of firms
- 7. Good Transport and Communication
- 8. Goal of Sale Maximization
- 9. Decrease in Taxes



Reasons for Leftward Shift

- 1. Increase in Price of Substitute Goods
- 2. Decrease in Price of Complementary Goods
- 3. Increase in Price of Factors (Input)
- 4. Degrade in Technology
- 5. Expectation in Rise in Price in Future;
- 6. Decrease in Number of firms
- 7. Poor Transport and Communication
- 8. Goal of Profit Maximization
- 9. Increase in Taxes



EXPANSION IN SUPPLY	INCREASE IN SUPPLY	CONTRACTION IN SUPPLY	DECREASE IN SUPPLY
1. When there is rise in	1. When rise in supply due to	1. When there is fall in supply	1. When decrease in
supply due to rise in Price	fall in price of inputs, rise in	due to fall in Price of its own.	supply due to De
of its own.	price of related Goods,		gradation in Technology,
	Increase in Excise duty, Up		Rise in Price of Inputs,
	gradation in technology etc.		Increase in Excise Duty or
			tax ,Rise in the Price
			of Related Goods etc.

2. In this situation producer move upward on the same demand	2. In this situation supply curve shift rightward.	2. In this situation consumer move downward on the same supply curve.	2. In this situation supply curve shift leftward.
3. Law of supply is applicable	3. Law of supply is not applicable.	3. Law of supply is applicable	3. Law of supply is not applicable.
4. More is supplied at more prices other things being equal.	4More is supplied at same price and same is supplied at fewer prices.	4. Less is supplied at less prices other things being equal.	4. Less is supplied at same price and same is supplied at more prices.
5. It is known as "Change in Quantity Supplied"	5. It is known as "Change in Supply"	5. It is known as "Change in Quantity supplied"	5. It is known as "Change in supply"
Expansion or Upward Movement S Quantity Suuplied Expansion in Supply (Upward Movement)	O Quantity Suuplied INCREASE IN SUPPLY	Contraction or Downward Movement S Quantity Suuplied Contraction ion Supply (Downward Movement	Decreas in Supply By Ey E Quantity Supplied DECREASE IN SUPPLY

15. Differences between Returns to factor & returns to scale.

RETURNS TO FACTORS	RETURNS TO SCALE
A change in total product caused by change in	A change in total product due to simultaneous &
the quantity of only one variable factor.	proportionate changes in the quantity of all factors.
It is short run production function.	It is long run production function.
Production can be changed only up to level of	Production can be changed by changing scale or changing
production by changing variable production.	all inputs simultaneously.
Factor proportion keeps changing.	All factors are increased proportionately.

16. Reasons behind the phases of Increasing Returns to a Factor, Diminishing Returns to a Factor and Negative Returns to a Factor.

INCREASING RETURN TO FACTORS	DIMINISHING RETURNS TO FACTORS	NEGATIVE RETURNS TO FACTORS		
1. Better utilization of underutilized	1. Inadequate factor proportion.	1. Fixity of Fixed Factors.		
fixed factors.	2. Optimum combination.	2. Defective factor ratio		
2. Labour division benefits.	3. Imperfect substitution of	3. Overcrowding of Variable		
3. Efficient use / utilization of variable	factors	Factors.		
factor.	4. Poor Coordination			
4. Better coordination	5. Over utilization (F. Factor)			

17. Explain the relationship between different cost concepts.

Relationship between Total Cost (TC), Total Fixed Cost (TFC) and Marginal Cost (MC)

- 1- TC and TVC are inversely S shaped because they initially rise at the decreasing rate, then at the constant rate and finally at the increasing rate.
- 2- At zero level of output there is no variable cost, so TC=TFC
- 3- TC and TVC are parallel to each other and the vertical distance between them is TFC which remains fixed.

Relation Ship Between (AC), (AVC) and (MC)

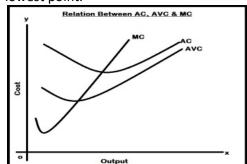
1When AC and AVC declines, MC declines faster than AC and AVC. So that MC curve Remain below AC curve and AVC curve.

2-When AVC increases, MC increases faster than AVC. So that MC is above AVC curve.

3When AC increases, MC increases faster than AC. So that MC is above AC curve.

4-Since MC declines faster than AC and AVC its reaches its lowest point earlier than AC and AVC. So that MC starts rising even AC and AVC is falling.

5-MC must cut AC and AVC from its lowest point.

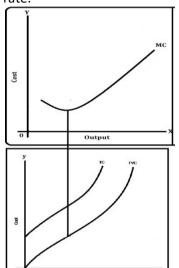


Relationship between Total Cost (TC) and Marginal Cost (MC)

1-When MC is falling, TC/TVC increases at a diminishing rate.

2-When MC is minimum, TC/TVC stops increasing at a diminishing rate.

3-When MC is rising, TC/TVC increases at an increasing rate.



Relationship between Average Cost (AC) and Marginal Cost (MC)

1-Both are calculated from TC.

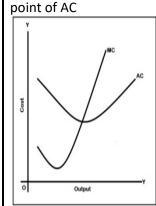
2-When AC falls, MC is less than AC.

3 - When MC = AC, AC is minimum.

4- When AC increases, MC is greater than AC.

5- MC curve cuts AC curve from below.

6- Minimum point of MC comes before minimum



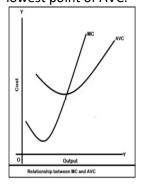
Relationship between Average Variable Cost (AVC) and Marginal Cost (MC)

1-When MC curve lies below AVC curve, AVC decreases.

2-When MC curve lies above AVC curve, AVC increases.

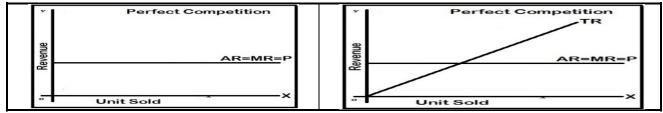
3-MC curve intersect AVC at its minimum point.

4-The lowest point of MC comes before the lowest point of AVC.



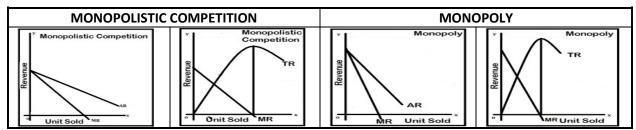
18. Explain relationship between different revenue concepts in different markets.

RELATIONSHIP BETWEEN AR AND MR(when price remains constant or perfect competition) - Under perfect competition, the sellers are price takers. Single price prevails in the Market. Since all the goods are homogeneous and are sold at the same price AR = MR. As a Result AR and MR curve will be horizontal straight line parallel to OX axis. (When price is constant or perfect competition)



<u>RELATIONSHIP BETWEEN TR AND MR</u>(When price remains constant or in perfect competition) - When there exists single price, the seller can sell any quantity at that price, the total revenue increases at a constant rate (MR is horizontal to X axis and TR is straight line curve showing constant increase).

<u>or under imperfect competition</u>) -* AR and MR curves will be downward sloping in both the market forms. *AR lies above MR. * AR can never be negative. * AR curve is less elastic in monopoly market form because of no substitutes. *AR curve is more elastic in monopolistic market because of the presence of substitutes.



<u>RELATIONSHIP BETWEEN TR AND MR -(When price falls with the increase in sale of output) -</u> Under imperfect market AR will be downward sloping – which shows that more units can be sold only at a less price. * MR falls with every fall in AR / price and lies below AR curve. * TR increases as long as MR is positive. * TR falls when MR is negative. * TR will be maximum when MR is zero.

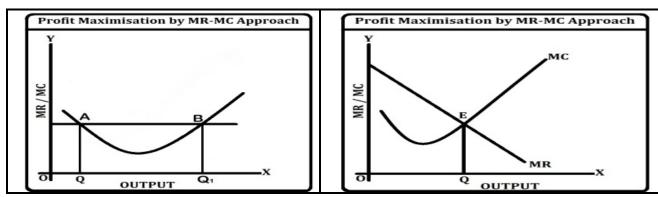
19. Explain producer's equilibrium with MR = MC approach.

PRODUCER'S EQUILIBRIUM: MC=MR APPROACH

Producer's equilibrium refers to the level of output of a commodity which gives the maximum profit to the producer of the commodity.

<u>MC= MR approach</u> -MC= MR approach is another way of identifying producer's equilibrium. The two condition of MC= MR approach become.

- (i) MC= MR; (ii) MC is greater than MR after the MC= MR output level.
- (i) MC=MR Profit is maximum a level of output where MR=MC. A producer will not be in equilibrium if MR>MC or MC>MR.
- (ii) Mc should be rising or MC>MR after equilibrium or MC cuts MR from below.



Note that the first condition (MC= MR) is satisfied both at A and B. But the second condition -MC Curve intersects MR curve from below - is satisfied only at B. After B, MC becomes greater than MR. Then the equilibrium output level is OQ_1 . When a producer can sell more only by lowering the price, the MR curve is downward sloping. The typical MC curve is U-shaped.

20. Differentiate between market forms on the basis of no. of buyers & sellers, control over price, selling cost, product, knowledge about market, entry & exit & shape of demand curve.

PERFECT COMPETITION

It refers to the market situation in which there are large no of buyers and sellers of homogenous product.

Price is determined by the industry and only one price prevails in the market. Example – Agricultural Product

Market

- 1. <u>VERY LARGE NO OF BUYERS AND SELLERS -</u> (I) As there are large number of sellers' individual <u>seller cannot</u> influence market supply or price. Similarly one <u>buyer cannot</u> affect market demand or price. (II) <u>Firms become</u> <u>price takers</u> as they have to accept the equilibrium price that market demand & supply decide. So <u>market or industry is price maker</u>. (III) Due to large number of buyers <u>firm can sell any amount</u> of good at equilibrium price. Hence they <u>have perfectly elastic</u>, horizontal Average Revenue (AR) <u>curve</u>.
- **2. HOMOGENEOUS PRODUCT** -Perfect competition market has homogenous goods which are same in shape, size, colour, price etc. (I) So it is <u>easy</u> for new firms to <u>enter into and exit from</u> the market. (II) There is <u>no selling cost</u> as there is no need for advertising the good. (III) So one firm cannot effect price <u>market decides</u> the price.
- <u>3. FREE ENTRY AND EXIT</u>-If in Short Run there are abnormal profit firms will <u>enter</u> the market & if there are <u>abnormal losses</u> firms will <u>exit</u> the market. Hence in the Long run firms will <u>earn Normal Profits</u>.
- 4. PERFECT KNOWLEDGE -Buyers as well as sellers have complete knowledge of the product.
- **<u>5. PERFECT MOBILITY OF FACTORS OF PRODUCTION -</u>** There is no geographical restriction on their movement. The factors are free to move to the industry in which they get the best price.
- <u>6. ABSENCE OF SELLING COST No</u> advertisement or selling cost is involved because of homogeneous product.
- **7. BSENCE OF TRANSPORTATION COST** -No transportation cost is involved in market because sellers and buyers have the perfect knowledge about the market.

<u>PURE COMPETITION-</u> Pure competition is the one which has following features - <u>1.</u> Large no of buyers and sellers; <u>2.</u> Homogeneous Product; <u>3.</u> Free from restriction.

MONOPOLISTIC COMPETITION

It refers to a market situation in which there are large no of firms which sell differentiated products. Market of product like textiles, soap, toothpaste, TV etc. examples of Monopolistic Competition Market.

- 1. LARGE NO OF BUYERS AND SELLERS Large no of firms are selling closely related, but not the homogeneous product. Each firm has a limited control over the supply in market. Large no of firm's leads to competition in the market. There are large numbers of buyers who have choices to buy from a variety of goods.
- **2. DIFFERENTIATED GOODS** -Differentiated goods are different in shape, size, colour, packaging etc. there are large number of firms selling goods which are close substitutes. The product of one firm is different from that of other firm only in colour, size, shape, packaging, branding, advertising etc; this is known as Product differentiation.

Because of product differentiation, each firm can decide its price but it has to keep price of competitors in mind. So each firm is price maker but it has a partial control over price of its product.

- 3. FREE ENTRY AND EXIT -in Short Run there is abnormal profit firms will enter the market & if there are abnormal losses firms will exit the market. Hence in the Long run firms will earn Normal Profits. It must be noted that entry under this is not as easy and free as under perfect competition. New firms can enter to the market by adding new feature in their product.
- <u>4. PRICE POLICY</u> A monopolistic is neither price taker nor a price maker. It is able to exercise partial control over price by bringing differentiation in the product, a firm is in a position to influence price.
- **4. LACK OF PERFECT KNOWLEDGE** -Buyers as well as sellers do not have complete knowledge of the product. Buyer's preferences are guided by advertisement and sellers decision depend on market condition.
- <u>5. NON-PRICE COMPETITION</u> Firms compete with each other on the basis of offering free gifts, extra product etc. different features in good and not on the basis of prices.
- <u>6. SELLING COST</u> It refers to the expenses incurred on marketing, sales promotion and advertisement of the product. It is <u>high</u>.

MONOPOLY

It is a market situation in which there is a single seller producer of a commodity with no close substitutes. The whole market is under his control and firm and industry is same. Example – railway.

- 1. SINGLE SELELRS AND LARGE NO OF BUYERS The single seller is performs all the functions of industry. But large no of buyers of the product. There is no difference between firms and industry in this market; this gives an arbitrary power to the monopolist to make all important decision. Absence of other sellers also implies that the market lacks competition.
- **2. UNIQUE PRODUCT WITHOUT CLOSE SUBSTITUTE PRODUCT** Absence of close substitute gives significant power to the monopolist to exercise substantial control over market price and supply. This is the reason that demand is inelastic.
- <u>3. RESTRICTION ON THE ENTRY OF NEW FIRMS</u>—Due to restricted entry, a monopolist enjoys super normal profit in the long run.
- <u>4. FULL CONTROLL OVER PRICE</u>—Monopolist is a price maker. He decides the price by himself. But it doesn't mean that he has unlimited power because he only controls the price and not to the demand. He has to reduce the price to attract more buyers.
- <u>5. PRICE DISCRIMINATION</u> –In monopoly market firms sell same good at <u>different prices</u> in different markets, to different groups and at different places. This is called Price discrimination. There are three types -

PRICE DISCRIMINATION							
PERSON PLACE USE							
RAILWAY	– CHARGE DIFFE	RENT FARE	ELECTRICITY		ELECTRICITY – DIFFERENT PRICE FOR		
S. CITIZEN	ADULT	CHILD	RURAL	URBAN	HOUSEHOLD	INDUSTRIAL	AGRICULTURAL

OLIGOPOLY MARKET

It is that form of market where there are few sellers and the price output policy of one seller does affect the price and output policy of the other seller. Product may be homogeneous or close substitute.

- <u>1. FEW FIRMS AND LARGE NO OF BUYERS</u> There are few sellers of the commodity and each seller a substantial portion of the output of the industry. The number of firm is so small that each seller knows that he can influence the price by his own action and that he can provoke rival firms to react.
- **2. RESTRICTION ON THE ENTRY** There is few firms and new firms cannot easily enter in industry because of many reasons like high capital requirement, patent etc. So that few existing firm earn abnormal profit.
- <u>3. INTER-DEPENDANCE BETWEEN FIRMS</u> In this market the price and the output decision of a particular firm are dependent on the price and output decision of other firms. It implies that no firm can fix its output and price without considering the probable rival reactions. Normally group behavior is observed in the form of collective decision and mutual cooperation by the firms.
- <u>4. NON-PRICE COMPETITION</u> The firms are afraid of competition through lowering the price because it may start price war. Therefore they compete through the non price factors like advertising, after sales service etc. This feature has an important implication that an oligopolistic firm fixes its price and output decision after taking in to consideration the probable rival reactions.
- <u>5. SELLING COST</u> It refers to the expenses incurred on marketing, sales promotion and advertisement of the product. <u>It is very huge in this market</u>.
- <u>6. PRICE RIGIDITY</u> Firms are unwilling to change prices. Price remains fixed irrespective of changes in demand and supply conditions. There is price rigidity due to fear of retaliatory action by rival firms.

21. What are the reasons for emergence of monopoly?

EMERGENCE OF MONOPOLY

Patent Right -Patent rights are the authority given by the government to a particular firm to produce a particular product for a specific time period.

Cartel -Cartel refers to a collective decision taken by a group of firms to avoid outside competition and securing monopoly right.

Government licensing -Government provides the license to a particular firm to produce a particular commodity exclusively.

Control in Resources – Monopoly sometimes occurs due to substantial control over certain resources required in the production.

22. Differentiate between Collusive & non collusive oligopoly & Perfect & differentiated oligopoly.

Perfect or Pure Oligopoly - If firms are producing homogeneous product – Steel, Cement.

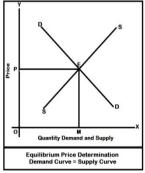
Imperfect or Differentiated Oligopoly - If firms are producing differentiated product – Automobile.

Collusive or Cooperative Oligopoly - When firms are agrees to avoid competition and cooperate with each other in determining price and output.

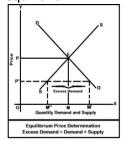
Non-collusive or non-cooperative Oligopoly – When each firm follows its price and output policy independent of rival firms and firms are compete with each other and there is cut throat competition. Each firm tries to increase its market share.

23. Chain reaction of excess demand & excess supply situations.

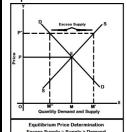
PRICE DETERMINATION In a market price of a commodity is decided by the free sources of demand and supply. These free forces of demand and supply act and react in such a that manner the quantity demanded is exactly equal to quantity supplied. In this course price is known as the equilibrium price. Intersection of market market demand and supply curves decides the price of a product.



EXCESS DEMAND When Excess Demand in the market at a given price, the competition among the buyers to purchase the required quantity. Hence they start offering higher market prices, demand contracts and supply This expands. market adjustment continues till the market reaches eauilibrium.

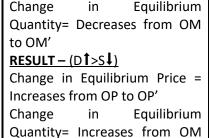


EXCESS SUPPLY When Excess Supply in the market at a given price, the competition among the sellers to dispose-of their output. Hence. they start offering lower prices. With prices. With rising | fall in the market prices, demand expands and supply contracts. market This adjustment continues till the market reaches

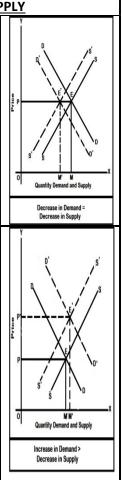


eauilibrium.

HOW TO WRITE EXPL	AINATION	0	F CHANGE IN
<u>DEMAND</u>	AND SUP	PL۱	<u>(</u>
Initial Demand Curve	= D D		
Initial Supply Curve	= S S	Ш	D s'
Initial Equilibrium	= E	Ш	q' s
Equilibrium Price	= OP	Ш	
Equilibrium Quantity	= OM	Price	\E'XE
When Demand and	Supply	ā	
Change simultaneou	ısly <u>–</u>	Ш	
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New Equilibrium Price	= OP'	_	Decrease in Supply
New Equilibrium	Quantity	H	
= OM'			D' s'
RESULT – $(D\downarrow = S\downarrow)$. \ /
Change in Equilibriur	n Price		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
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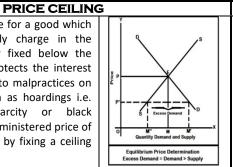
to OM'



PRICE	Q. DEMAND	Q. SUPPLY	EXCESS SUPPLY -Competition among the sellers to dispose-of their output. Hence, they start offering lower prices. With fall in	Ĭ,
8	2	8	the market prices, demand expands and supply contracts. This	Excess Sup
8		0		
7	3	7	market adjustment continues till the market reaches	
6	4	6	equilibrium.	P" Excess Dem
5	5	5	EQUILIBRIUM – NO CHANGE REQUIRED – CHAIN EFFECT OF EXCESS DEMAND AND EXCESS SUPPLY	
4	6	4	EXCESS DEMAND -Competition among the buyers to purchase	§ Z
3	7	3	the required quantity. Hence they start offering higher prices.	O M Quantity Demand and
2	8	2	With rising market prices, demand contracts and supply	
1	9	1	expands. This market adjustment continues till the market	Equilibrium Price Dete Demand Curve = Sup
			reaches equilibrium.	

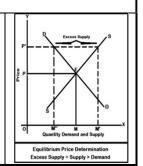
24. Explain Price ceiling & price floor concept.

It is the maximum price for a good which a producer can legally charge in the market. It is generally fixed below the equilibrium price. It protects the interest of consumers. It leads to malpractices on part of producers such as hoardings i.e. creating artificial scarcity or black marketing. Govt. has administered price of various essential goods by fixing a ceiling on their prices.



It's a minimum price guaranteed by the government for a good to the producers at which they can sell their product to the government. It generally fixed above the equilibrium price. It protects the interest of producers (especially farmers). It requires the government to maintain buffer stocks of basic food grains. Govt. also administers price of various agricultural goods by giving a support price to the farmers so that at least they get the cost of production.

PRICEFLOOR



Contact if you have any doubt

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