/	<u>ney Supply</u>	a dura the formation in a formation of		
		ne smooth functioning of an economy.		
	•	a <u>very important macroeconomic variable</u> responsible for changes		
in many oth	er significant macr	oeconomic variables in an economy.		
<u>stimating</u>	<u>Money Supply</u>			
		upply of money at any time should to be maintained at an optimum level.		
		accurately estimate the stock of money supply on a regular basis and		
appropriately re	gulate it in accordance	e with the monetary requirements of the country.		
1				
Neaning		ney supply denotes the <u>total quantity of money</u> available to the		
	people in an e	economy.		
neasurable	v ne <u>quantity</u>	✓ The <u>quantity of money</u> at any point of time is a <u>measurable</u> concept.		
Concept				
mportant		\checkmark The supply of money is a <u>stock variable</u> i.e. it refers to the total amount of		
points		money at any particular point of time.		
	\checkmark The stock of money always refers to the stock of money <u>available to the</u>			
	•	<u>'public'</u> as a means of payments and store of value.		
	✓ This is alway	\checkmark This is always smaller than the total stock of money that really exists in an		
	economy.			
>ublic	Inclusions	✓ All economic units		
		 households, 		
		 firms and 		
		 institutions 		
		✓ Local authorities,		
		✓ Non-banking financial institutions,		
		 ✓ Non-departmental public-sector undertakings, 		
		✓ Foreign central banks,		
		✓ Foreign governments, and		
		✓ International Monetary Fund		
	Exclusions	Producers of money (i.e. the government and the banking		
		system).		
		✓ <u>Government</u>		
		 central government, 		
		 all state governments, and 		
		 local bodies 		
		✓ <u>Banking system</u>		
		* RBI		

Rationale of	Measuring	Money	Supply

Analysis of Monetary Developments	 It facilitates analysis of monetary developments in order to provide a deeper understanding.
Evaluating Deviations	 It is essential to evaluate whether the stock of money in the economy is <u>consistent with the standards for price stability</u> and to understand the nature of deviations from this standard. The central banks all over the world adopt monetary policy to stabilise price level and GDP growth by directly controlling the supply of money.

The Sources of Money Supply

Decísíon of Central Bank	 The central banks of all countries are <u>empowered to issue currency</u> and, therefore, the central bank is the primary source of money supply in all countries. The currency issued by the central bank is <u>'fiat money'</u>.
Supply responses of Commercial Banking system	 The total supply of money in the economy is also determined by the <u>extent of credit created by the commercial banks</u> in the country. Banks create money supply in the process of borrowing and lending transactions with the public. Money so created by the commercial banks is called <u>'credit money'</u>.

Theories for Determinants of Money Supply

Fírst Víew	✓ Money supply is determined <u>exogenously</u> by the central bank.
Second Víew	✓ The money supply is determined <u>endogenously</u> by changes in the economic activities which affect people's desire to hold currency relative to deposits, rate of interest, etc.
Current Practíce	✓ The current practice is to explain the determinants of money supply based on <u>'money multiplier approach'</u> .

Money Multiplier Approach to Supply of Money

Basics	

Orígín	 The money multiplier approach to money supply was propounded by <u>Milton</u> <u>Friedman and Anna Schwartz</u> in 1963. 		
Determinants of money supply	 The stock of high-powered money The ratio of reserves to deposits The ratio of currency to deposits These variables are designated as the <u>proximate determinants</u> of the nominal money supply in the economy. 		
	Behaviour of Central Bank		
How does ít effect?	✓ Behaviour of Central Bank is reflected in the <u>supply of the nominal high-powered money</u> as Central bank of the country controls the issue of currency.		
What is the Eff ect?	✓ If govt. issues High Powered Money, the money supply will increase largely due to money multiplier approach.		
	Behaviour of Commercial Banks		
How does ít effect?	✓ The behaviour of the commercial banks in the economy is reflected in the ratio of their cash reserves to deposits known as the <u>'reserve ratio'</u> .		
Effect of this ratio	 Increase If this ratio increases while all the other variables remain the same, <u>more reserves</u> would be needed. This implies that banks must <u>contract their loans</u>, causing a <u>decline</u> in deposits and hence in the money supply. Decrease If this ratio falls, there will be <u>greater expansions of deposits</u> 		
	because the same level of reserves can now support more deposits and the <u>money supply will increase</u> .		
	<u>Thus, money multiplier and the money supply are negatively related to the</u> <u>Reserves ratio.</u>		
Actual Practice by Commercial	✓ For the commercial banking system as a whole, the <u>actual reserves ratio is</u> <u>greater than the required reserve ratio</u> since the banks keep with them a higher than the statutorily required percentage of their deposits in the form of cash reserves.		

Extent of Holding Excess Reserves/ Excess Reserve Ratio	the commercia excess reserve ✓ Therefore, if these are held effect on depo Falls Ríses	al units of high-powered money that goes into <u>'excess reserves'</u> of ial banks <u>do not lead to any additional loans</u> , and therefore, these ves do not lead to creation of money. The central bank injects money into the banking system and d as excess reserves by the banking system, there will be no posits or currency and hence no effect on money supply. ✓ When cost of holding Excess Reserves <u>increases</u> . ✓ When cost of holding Excess Reserves <u>decreases</u> .	
Factors affecting Excess Reserve Ratio	Market Interest Rates	Increase ✓ If interest rate increases, it means that the opportunity cost of holding excess reserves rises because the banks have to sacrifice possible higher earnings and hence the desired ratio of excess reserves to deposits falls. Decrease ✓ A decrease in interest rate will reduce the opportunity cost of excess reserves, and excess reserves will rise. Thus, the banking system's excess reserves ratio is negatively related to the market interest rate.	
	Expected Deposít Outflows	Increase Decrease	 If banks fear that deposit outflows are likely to increase (that is, if expected deposit outflows increase), they will want more assurance against this possibility and will increase the excess reserves ratio. If banks have an apprehension that deposit outflows are likely to decrease (that is, if
		<u>related to t</u>	expected deposit outflows decrease (matrix, matrix, matrix) will decrease the excess reserves ratio.
How does ít effect?	 The public, by their decisions in respect of the amount of nominal currency in hand (how much money they wish to hold as cash) is in a position to influence the amount of the nominal demand deposits of the commercial banks. The behaviour of public influences bank credit through the decision on ratio of 		

What is				
Currency	1			
Ratío?				
Factors	✓ The currency	y-deposit ratio	(c) represents the <u>degree of adoption of banking</u>	
affecting	habits by the		and the second sec	
currency ratio	✓ It is influence			
	-		sophistication in terms of ease and access to	
		l services,		
		8 A.	array of <u>liquid financial assets</u> ,	
	* <u>Tinanciai</u>	<u>kinnovations</u> , et	С.	
What is the	Increase	/ Hickon is t	his natio means history is surroupy holding and loss	
Effect?	Thorease	-	his ratio, means higher is currency holding and less ng deposited in banks.	
6/1001:			is the credit creation.	
		• mus, <u>roce .</u>	s me crean creanon.	
	Decrease	✓ Lower is th	nis ratio, means lower is currency holding and more	
			ng deposited in banks.	
		✓ Thus, higher is the credit creation.		
	<u>Thus, money multiplier and the money supply are negatively related to the currency ratio.</u>			
TD - DD Ratio	Meaning		ow much money is kept as <u>time deposits compared</u>	
		to demand		
			also has an important implication for the money	
		multiplier.		
	Effect	Increase	✓ An increase in TD/DD ratio means that <u>areater</u>	
	011000	indicate in the second	availability of free reserves and consequent	
			<u>enlargement</u> of volume of multiple deposit	
			expansion and <u>monetary expansion</u> .	
		Decrease	✓ A decrease in TD/DD ratio means that less	
			availability of free reserves and consequent	
			less volume of multiple deposit expansion and	
			monetary expansion.	
			nultiplier and the money supply are positively	
		related to the	<u>e TD-DD ratio.</u>	
	!			