

Chapter -3 Unit-2 CONCEPT OF MONEY SUPPLY

Total Quantity of Money available to the people



at any point of the time in the economy is

called Money Supply.

It is a "stock"

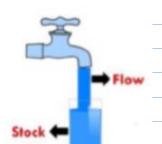
concept

measurable at

any point of time

Available to the "public"

public includes
all economic units







institutions

Except







Government

Banking System



In Money Supply inter bank deposits and Money held by Govt. & banking system

Not INCLUDED



Rationale of Measuring Money Supply Provide For Analysis of Framework to Monetary make developments Monetary policy. Sources of Money Supply Commercial Bank Central Bank RBI BANK primary source By the process of issue "Fiat Money" Lending & Borrowing it is a Liability of it Central Bank & Govt. creates "High Power Money" "Credit-Money" "Monetary Base"



The high-powered money and the credit money broadly constitute the most common measure of money supply, or the total money stock of a country.



Evolution %



of Money

Commodity Money



Metallic Currency



Paper Currency





Digital Currency



CBDC

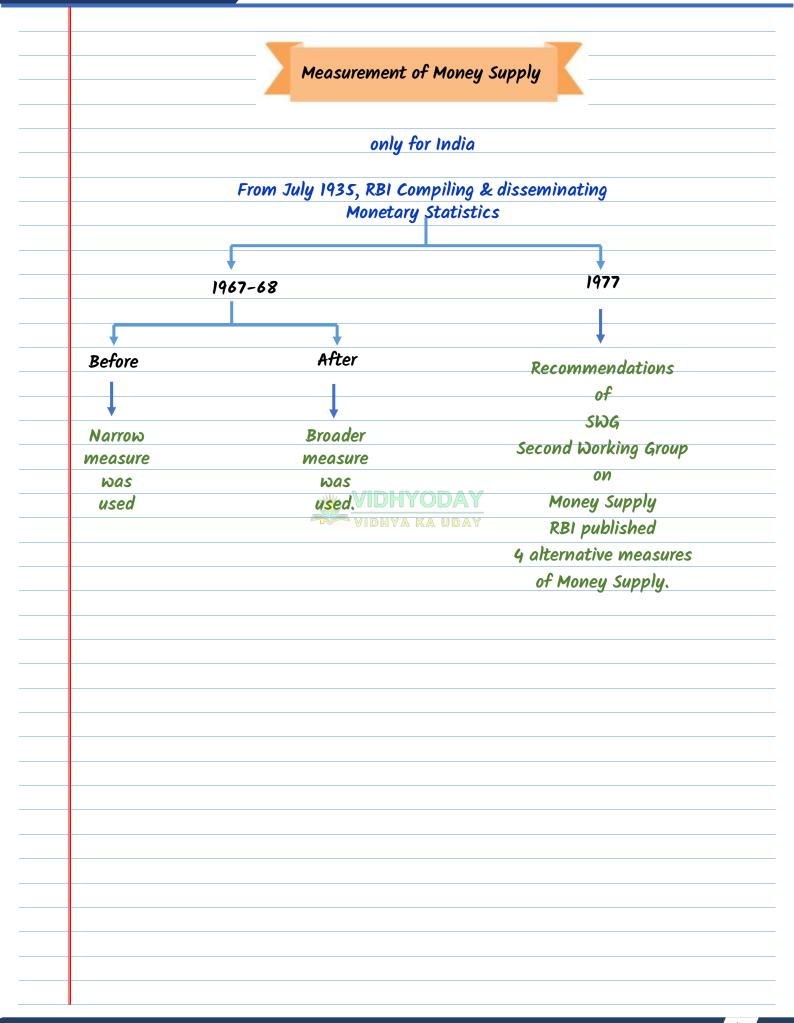


RBI's 2018
order barred
banks & FIS
from dealing
with virtual
crypto currencies.

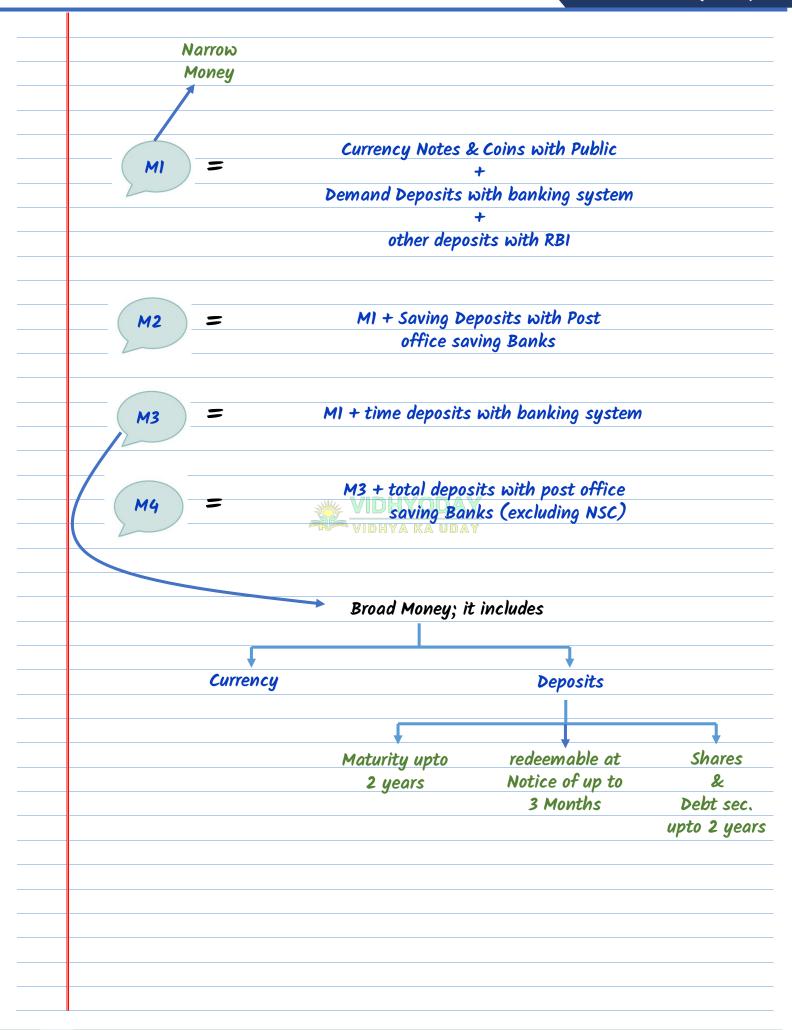
Central Bank Digital Currencies
Digital currency of India (e ₹)

Legal Tender issued by Central bank in Digital Form.





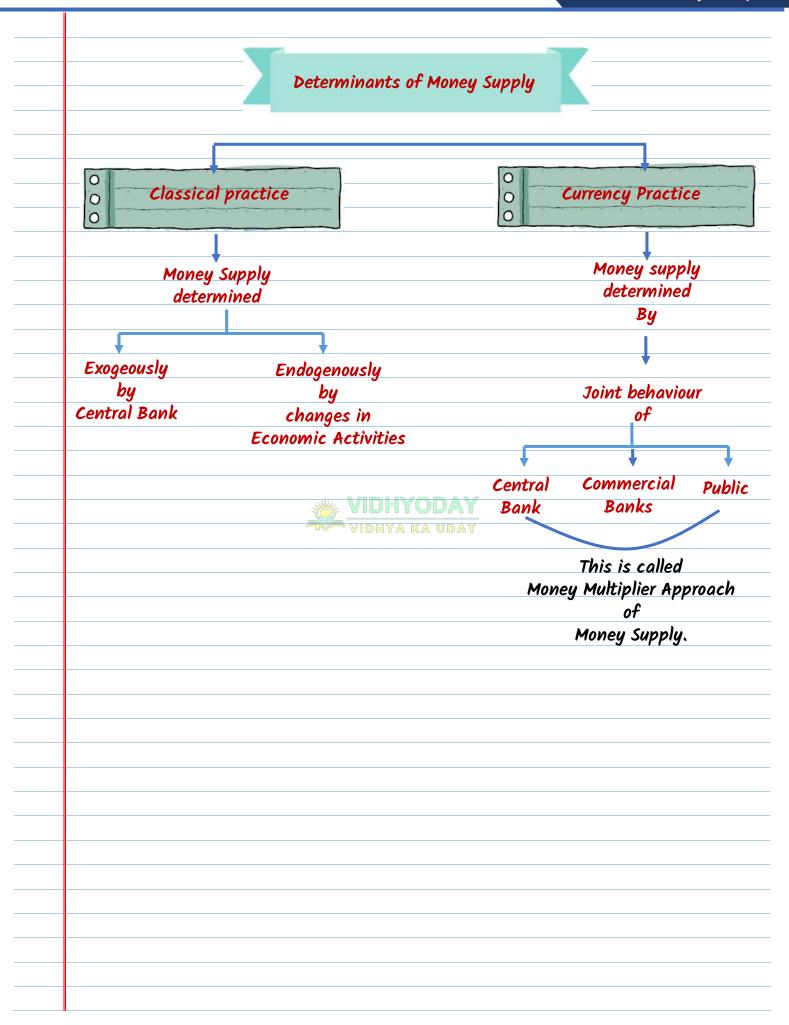






	urrency = Currency in _ Cash in hand ch public circulation with banks
↓	Here—
Oup.	The term 'public' is defined to include all economic units (households, firms a institutions) except the producers of money (i.e. the government and the bar system.
© ₇₁₁₀	The government, in this context, includes the central government and all state governments and local bodies; and the banking system means the Reserve Bank of India and all the banks that accept demand deposits (i.e. deposits from which more can be withdrawn by cheque mainly (ASA deposits).
	W VIDHYODAY
ال	The word 'public' is inclusive of all local authorities, non-banking financial institution and non-departmental public-sector undertakings, foreign central banks and governmental the International Monetary Fund which holds a part of Indian money in India a form of deposits with the RBI.
	ile discussing the definition of 'supply of money' and the standard measures of mon bank deposits and money held by the government and the banking system are not incl









Money Multiplier



A one-rupee Increase in Monetary base

cause

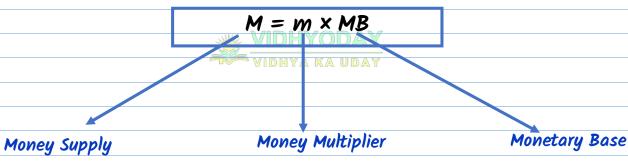
Increase in Money Supply

By

More than one rupee.



this increase in Money Supply is the Money Multiplier.





m = M MB

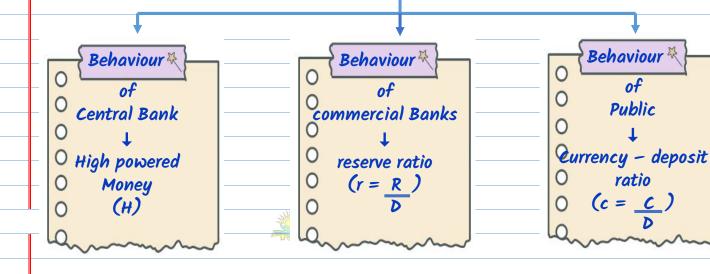
Money Supply Monetary Base



Money Multiplier Approach To Supply of Money

propounded by Milton Friedman & Anna Sechwartz (1963)

There are 3 determinants of Money Supply



The Behaviour of Central Bank (High Powered Money H)

 $M \times H$

As H T M T



M is DIRECTLY PROPORTINATE WITH H



The Behaviour of Commercial Banks (Reserve Ratio r)

M×1 r



r = Reserve

Deposits

As r x Reserve

As $r\uparrow M\downarrow$

Reserve † r †

Reserve $\downarrow r \downarrow$

SMALLER THE RESERVE RATIO LARGER WILL BE THE MONEY MULTIPLIER.





In addition to this — .

Practically commercial banks keeps

Excess Reserve

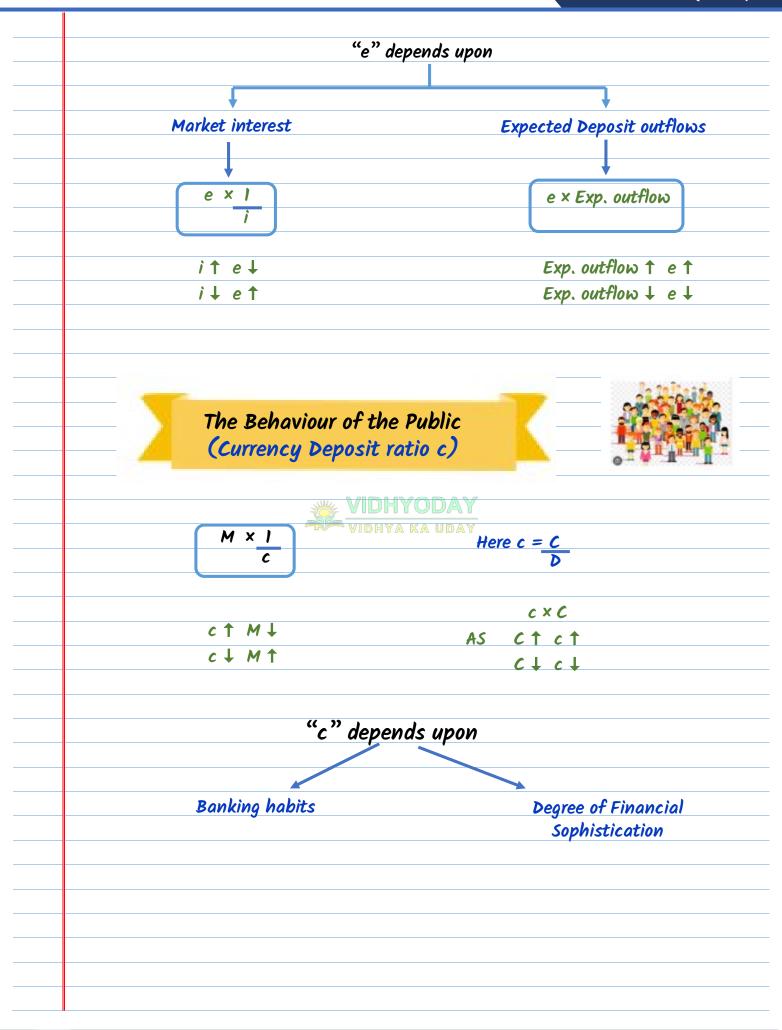
ER = Total Reserve - Required Reserve

M×1 r

e = ER

As et M+









Addition to this MS depends upon

TD & CD Ratio also

To Summarise —



Here
$$c = C$$



Relation between all the variable of Money Multiplier



$$M = C + D$$



$$H = C + R$$



Here -

$$D = Deposits = DD$$

$$R = Reserves$$

As We Know -

$$r = R$$

&



Rewriting Eq No.(i)

$$M = (c \times D) + I$$

$$M = D(c+1)$$

$$M = (c+1) D$$

Rewriting Eq No.(ii)

$$H = (c \times D) + R$$

$$= (c \times D) + (r + D)$$

$$= D (c + r)$$

$$H = (r + c) D$$



 $\frac{\text{Multiplier is } m = M}{H}$

From Eq. No. (i) & (ii)

$$m = \frac{(1+c)\mathcal{D}}{(r+c)\mathcal{D}}$$

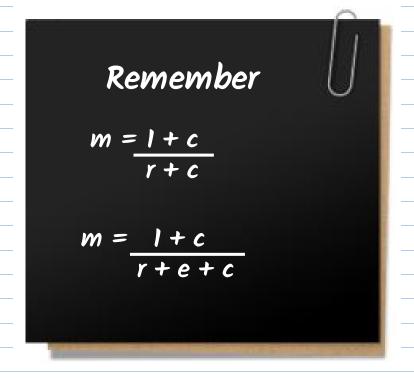


if there are

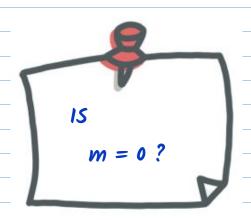
Excess Reserve also

Then

$$m = \frac{1+c}{r+e+c}$$







It may happen When interest rates are too low & banks prefer to hold new injected money as Excess Reserve.



(Deposit Multiplier)

It tells us How much new money will be created

BY

Banking System

For

a given increase in the High powered Money.

Credit Multiplier = $\frac{1}{RR}$

RR = Reserve Ratio

credit creation = Initial Deposite \times 1

K





The deposit multiplier and the money though closely related are not identical because:

- generally banks do not lend out all of their available money but instead maintain reserves at a level above the minimum required reserve.
- all borrowers do not spend every Rupee they have borrowed. They are likely to convert some portion of it to cash.

Creating money through credit by banks does not mean creating wealth. Money creation is not the same as wealth creation.





If the central bank of a country wants to stimulate economic activity it does so by infusing liquidity into the system with open market operations (OMO).

Purchase of government securities injects high powered money (monetary base) into the system

The credit creation process by the banking system in the country will create money to the tune of

$$\Delta$$
 Money supply = $\frac{1}{r} \times \Delta$ Reserves

The effect of Sale of government securities is very similar to that of open market purchase, but in the opposite direction.

A open market purchase by central bank will reduce the reserves and thereby reduce the money supply and vice versa.



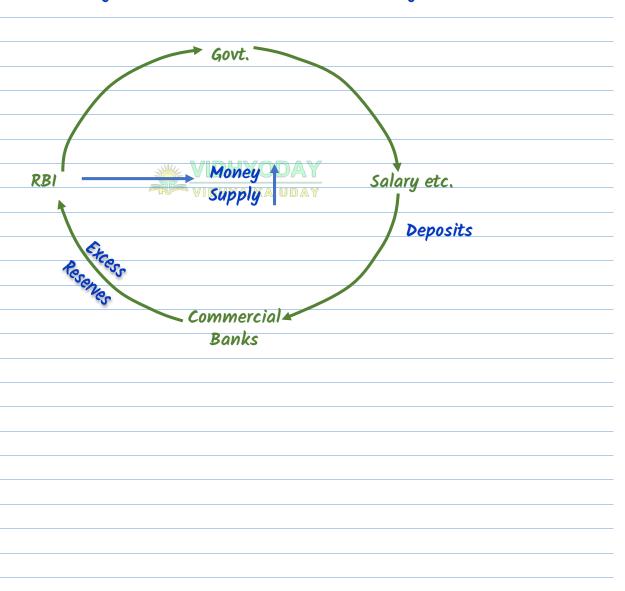


when Central & State Govt, need credit

they avail a facility

Called WMA / OD Facility

Way & Means Advances / Overdraft Facility





Chapter -3 (Unit -2) CONCEPT OF MONEY SUPPLY

1.	M3 includes which of the following
	components?
	(a) Currency in circulation, demand
	deposits, and other deposits with P
	(b) Currency in circulation
	and time deposits 💮 🗖 😫 🗀
	(c) Currency in circulation, demand
	deposits, time deposits, savings deposits,
	and government securities
	(d) Currency in circulation, demand
	deposits, and time deposits
2.	Which monetary aggregate is considered
	the narrowest measure of money supply?
	(b) M2
	(c) M3
	(d) M4
3,	M4 includes which of the following
	components?
	(a) Currency in circulation, demand
	deposits, and government securities
	(b) Currency in circulation, demand
	deposits, time deposits, and
	savings deposits
	(c) Currency in circulation, demand
	deposits, time deposits, savings deposits,
	and small-denomination time deposits
	(d) Currency in circulation and time
	deposits
4.	Which monetary aggregate represents the
	broadest measure of money supply? (a) MI
	(b) M2 (c) M3 DIAM
	(d) M4
5,	The main purpose of creating different
<u> </u>	monetary aggregates is to:
18	
10	THE CONCERT OF MONEY SUFFER

(a) Simplify accounting procedures for the central bank

(b) Measure the different components of GDP

(c) Monitor the money supply in various forms to understand the overall liquidity in the economy

(d) Determine the government's fiscal policy

6. Non-Monetary Financial Institutions
(NMFIs) are included in which monetary
aggregate?

(a) MI

(b) M2

(c) M3

(d) M4

7. Which of the following is an example of an M3 component?

(a) Demand deposits

(b) Time deposits

(c) Treasury bills

(d) Currency in circulation .

8. What are monetary aggregates?

(a) Measures of the total demand for money in an economy

in an economy

(c) Measures of the total output of goods and services in an economy

(d) Measures of the total government expenditure in an economy

9. MI includes which of the following components?

(a) Currency in circulation and time deposits

(b) Currency in circulation, demand deposits, and other deposits with RBI





	(c) Currency in circulation, demand		decrease in the money multiplier
	deposits, and time deposits		(b) An increase in the money supply and
	(d) Currency in circulation, demand	_ (1999	an increase in the money multiplier
	deposits, time deposits, and savings		(c) A decrease in the money supply and
	deposits		an increase in the money multiplier
10.	M2 includes which of the following		(d) An increase in the money supply and
	components?		a decrease in the money multiplier
	(a) Currency in circulation, demand	15.	The formula for calculating the money
	deposits, time deposits,		multiplier is:
	and savings deposits		(a) Money Multiplier = Currency in
	(b) Currency in circulation, demand		Circulation / Reserve Ratio
	deposits, and other deposits with RBI		(b) Money Multiplier = Reserve Ratio /
	(c) Currency in circulation and time		Currency in Circulation
	deposits		(c) Money Multiplier = 1 / Reserve Ratio
	(d) Currency in circulation, demand		(d) Money Multiplier = Reserve Ratio /I
	deposits, and government bonds	16.	If the reserve ratio is 0.10 (10%), what is
11.	What is the money multiplier?		the money multiplier?
	(a) The ratio of the money supply to the		(a) 10
	gross domestic product (GDP)		(b) 5
	(b) The ratio of the money		(c) 2
	supply to the total population		(d) 0,10
	(c) The ratio of the money supply to the	17.	The money multiplier approach assumes
	monetary base		that banks will:
	(d) The ratio of the money supply to the		(a) Hold excess reserves
	government budget		(b) Lend out all their deposits
12.	The money multiplier approach helps	ETIN SOCIETY	(c) Decrease their lending during
	explain the relationship between changes		economic expansions
	in the monetary base and changes in the:		(d) Not influence the money supply
	(a) Money supply	18.	If the central bank conducts an open
	(b) Government spending		market sale of government securities, the
	(c) Consumer price index (CPI)		money supply will:
	(d) Trade deficit		(a) Increase
13.	The money multiplier is influenced by		(b) Decrease
	which of the following factors?		(c) Remain unchanged
	(a) The government's fiscal policy		(d) Double
	(b) The central bank's monetary policu	19.	In the money multiplier approach, the
	(c) The foreign exchange rate		process of money creation continues until:
	(d) Consumer preferences		(a) The government intervenes and
14.	An increase in the required reserve ratio		controls the money supply
	will lead to:		(b) The central bank runs out of
	(a) A decrease in the money supply and a		monetary base
	3 11 0		THE CONCEPT OF MONEY CURRLY



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	(c) The bo	anks ho	ld exces	s reserve	es			from the banking system in the form of:											
	(d) The		the		(a) Taxes and government spending (b) Interest payments (c) Foreign exchange transactions														
	monetary		_\$		(b) Interest payments														
	<u>multiplier</u>							12	(c)	<u>Fore</u> i	gn ex	char	nge ti	<u>ransa</u>	<u>ction</u>	S			
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	that there										- 3		J						
			9																
	<u>Answer Key</u>																		
	1 6	2 A	3	C 4	D	5	С	6	D	7	С	8	В	9	С	10	A		
	11 C	12 A	13	B 14	A	15	C	16	В	17	В	18	В	19	D	20	D		
				NEW CURI															