

NCERT ECONOMY

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NCERT CONDENSED / SUMMARISED CLASS 12 ECONOMY Part 2

INDIAN MACRO ECONOMICS

Chapter 5 - Aggregate Demand and Its Related Concepts

Chapter 6 - National Income Determination and Multiplier

Chapter 7 - Excess Demand and Deficient Demand



Chapter 5 - Aggregate Demand and Its Related Concepts

Aggregate Demand, Aggregate Supply and Three Components

1. Aggregate Demand:

- a) Aggregate demand refers to the total demand for final goods and services in an economy during an accounting year.
- b) Aggregate demand is aggregate expenditure on ex-ante (planned) consumption and ex-ante (planned) investment that all sectors of the economy are willing to incur at each income level.
- Note: In terms of Keynes, aggregate demand refers to the total amount of money, which the buyers are ready to spend on purchase of goods and services, produced in an economy during a given period. It should be kept in mind that Keynes measured aggregate demand not in terms of physical goods and services but as a part of total income that society is ready to spend.
- c) Components of aggregate demand:

The components of aggregate demand are:

- i) Private (or Household) consumption demand
- Total expenditure incurred by all the households of the country on their personal consumption is known as private consumption expenditure.
- Consumption demand depends mainly on disposable income and propensity to consume.
 - ii) Private investment demand
 - Private investment demand refers to the demand for capital goods by private investors.
 - It is addition to the existing stock of real capital assets such as machines, tools, factory – building etc.
 - Investments demand depends upon marginal efficiency of capital (Marginal efficiency of investment) and interest rate.
 - Investment is of two types, Autonomous Investment and Induced investment, but in Keynes theory investment is assumed to be Autonomous.
 - The basic difference between Induced Investment and Autonomous Investment

| Induced Investment | Basis | Autonomous Investment |
|--|--------|---|
| It refers to the investment which is made with the motive of earning profit. | Motive | It refers to the investment, which is made irrespective of level of income. |
| t is generally done in private sector. | Sector | It is generally done in government sector |



National Income

It is income elastic. If national income | Income | It is income inelastic, i.e., it is not goes up, induced investment also goes Elasticity affected by change in income level. The volume of autonomous investment is up. Its reason is that increase in NY the same at all levels of income. leads to increase in demand for goods and services and for meeting the same, investment is increased. Its curve is a straight line parallel to Its curve is upward sloping rises up to Curve horizontal axis. Right. National Income

Notes

iii) Government demand for goods and services Its curve is upward sloping rises up to Right.

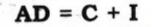
- In a modern economy, the government is an important buyer of goods and services.
- It is income inelastic, i.e., it is not affected by change in income level. The volume of autonomous investment is the same at all levels of income.
- Its curve is a straight line parallel to horizontal axis.
- The government demand may be on account of public needs for roads, schools, hospitals, power, irrigation etc, for the maintenance of law and order and for defence.

iv) Demand for net export (X - M)

- Net export represents foreign demand for goods and services produced by an economy.
- When exports exceed imports, net exports is positive and when imports exceed, net exports is negative.
- Exports and imports of a country are influenced by a number of factors such as foreign trade policy, exchange- rate, prices and quality of goods etc.
- Thus, aggregate demand consists of these four types of demand.

$$AD = C + I + G + (X - M)$$

- However, for the sake of simplicity Keynes included only two types of demand,
 - Consumption demand (C)
 - Investment demand (I)

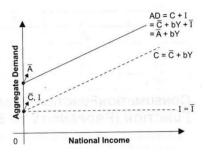




Aggregate demand can be explained with the help of AD schedule and AD curve.

Aggregate Demand Schedule

| | -88. oBate 2 time | THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IN COLUMN | 0125200000000 |
|---------------------------|-------------------|---|---------------|
| National Income (Y) | Consumption (C) | Autonomous Investment (I) | AD = C + I |
| 0 | 20 | -20 | 40 |
| 10 | 25 | 20 | 45 |
| 20 | 30 | 20 | 50 |
| 30 | 35 | 20 | 55 |
| 40 | 40 | 20 | 60 |
| 50 | 45 | 20 | 65 |



2. Aggregate Supply:

- a) Concept of aggregate supply (ΔS) is related with the total supply of goods and services by all the producers in an economy. Four factor of production like land, labour, capital and enterprise are required for the production of goods and services. Producers pay rent to land, wages and salaries to labour, interest to capital and Profits to the entrepreneur for their services in production. This payment is factor- cost from producer's point of view and factor-income from factor-owner angle.
- b) Thus, aggregate supply is the total amount of money value of goods and services, (which is paid to the factor of production against their factor services) that all the producers are willing to supply in an economy. In other words, it is the total cost of production of goods and services produced in a country or it is the value of **net national product at factor cost (NNPFC**). Thus, the main components of aggregate supply are:

Notes

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| (i) Wages | (ii) | Rent | (iii) Interest | (iv) Profit |
|------------------|------|-----------|----------------------------|-------------------|
| AGGREGATE SUPPLY | = | [Wages] + | [Rent + Interest + Profit] | |
| | = | [Compens | sation of Employees] + [Or | perating Surplus] |
| | = | NDPFC (N | let Domestic product at F | actor Cost) |
| | = | NNPFC (N | et National Product at Fa | ctor Cost) |
| 4 | = | Consump | tion (C) + Saving (S) | |
| AGGREGATE SUPPLY | = | C+S | 2 2 2 2 | in law fait U |

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c) Keynes assumed his economy to be a closed capitalist economy and whenever any economy is closed capitalist, then Net Factor Income from Abroad (NFIA) is 0.
 National Income (NNPFC) = Domestic Income (NDPFC) + Net Factor Income from Abroad (NFIA)



National Income (NNPFC) = Domestic Income (NDPFC) + 0

In short,

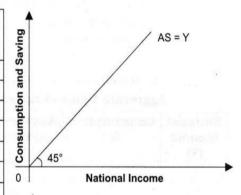
Aggregate Supply = NNPFC = NDPFC = Factor Income = Rent + Interest + Wages + Profit

- d) As we know income is either consumed or saved, hence for the sake of simplicity Keynes has regarded only two main constituents of aggregate supply:
 - (i) Consumption (C)

(ii) Saving (S)

| AS | = | C | + | S | |
|----|---|---|---|---|--|
|----|---|---|---|---|--|

| National Income (Y) | Consumption (C) | Saving (S) | AS = C + S |
|---------------------------|--------------------|---------------|------------|
| 0 | 20 | -20 | 0 |
| 10 | 25 | -15 | 10 |
| 20 | 30 | -10 | 20 |
| 30 | 35 | -5 | 30 |
| 40 | 40 | 0 | 40 |
| 50 | 45 | 5 | 50 |
| 60 | 50 | 10 | 60 |



Consumption Function (Propensity To Consume) And its types, Saving Function (Propensity To Save) And Its Types

- 1. **Consumption function** expresses functional relationship between aggregate consumption and national income.
 - Thus, consumption (C) is a function of income (Y). C = F(Y)
 - Where, C = Consumption; F = Function; Y = Disposable income Consumption at a point of time can be measured with the equation:

$$C = \bar{C} + bY$$

Where, C = Consumption

 \bar{C} = Minimum level of consumption when income is zero

b = Marginal propensity to consume

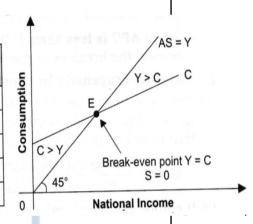
Y = Level of income



- **Notes**
- 2. According to Keynes, as income increases consumption expenditure also increases but increase in consumption is smaller than the increase in income. In other words, consumption lags behind income. This is called Keynes' Psychological law of Consumption. According to Keynes, propensity to consume of the people remains stable in the short period.
- 3. **Break-even point** refers to that point in the level of income at which consumption is just equal to income. In other words, whole of income is spent on consumption and there is no saving. Below this level of income, consumption is greater than income but above this level, income is greater than consumption.

| | | | 100 |
|-------------|-----|--------|----------|
| Consumption | and | Saving | Schedule |
| Consumption | anu | Daving | Demonar |

| National Income(Y) | Consumption (C) | Saving (S) | |
|-----------------------|-----------------|------------|--|
| 40,000 | 46,000 | -6,000 | |
| 50,000 | 53,000 | -3,000 | |
| 60,000 | 60,000 | 0 | |
| 70,000 | 67,000 | 3,000 | |
| 80,000 | 74,000 | 6,000 | |



• In the given imaginary household schedule of consumption and saving, at annual income level of Rs.60,000, consumption is Rs.60,000 and in consequence there is no saving. This is break-even point.

It is evident from the table and diagram that:

- (i) As the income increases, consumption also increases, but the increase in consumption remains less than the increase in income.
- (ii) Income can be zero but consumption can never be zero in the economy.
- (iii) When C > Y, saving are negative.
- (iv) When C = Y, savings are zero. This is known as breakeven point. This is shown by point E in the diagram. Thus break-even point indicates a point where consumption becomes equal to income or consumption curve cuts the income curve.



4. There are two types of propensity to consume: Notes

- a) Average propensity to consume (APC)
 - i) Ratio of aggregate consumption expenditure to aggregate income is known, as average propensity to consume. It indicates the percentage (or ratio) of income which is being spent on consumption. It is worked out by dividing total consumption expenditure (C) by total income (Y). A Consumption (C)

$$\mathbf{APC} = \frac{\mathbf{Consumption}\; (\mathbf{C})}{\mathbf{Income}\; (\mathbf{Y})}$$

ii) It can be explained with the help of following schedule and diagram:

iii) Important Points for APC:

- When APC is more than 1: When APC is more than 1, consumption is more than national income,
- i.e. before the break-even point.
- APC = 1: When APC is equal to 1, consumption is equal to national income, which is known as to be break-even point.
- When APC is less than 1: When consumption is less than national income, i.e. beyond the break- even point.

b) Marginal Propensity to consume (MPC):

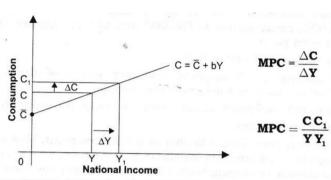
 i) The ratio of change in consumption (C) to change in income (Y) is known as marginal propensity to consume.
 It indicates the proportion of additional income that is being spent on consumption.

$$\mathbf{MPC} = \frac{\text{Change in consumption } (\Delta \mathbf{C})}{\text{Change in income } (\Delta \mathbf{Y})}$$

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It can be explained with the help of following schedule and diagram:





| Case 1 Constant MPC (As assumed by Keynes) | | | | | | g Marg | | Case 2 ropensit | y (General Cas |
|--|------|------|-----|--|------|--------|-----|--------------------|--|
| Y, | С | ΔΥ | ΔC | $\mathbf{MPC} = \frac{\Delta \mathbf{C}}{\Delta \mathbf{Y}}$ | Y | C- | ΔC | ΔΥ | $\mathbf{MPC} = \frac{\Delta \mathbf{C}}{\Delta \mathbf{Y}}$ |
| 3000 | 3000 | _ | _ | <u> </u> | 3000 | 3000 | | | |
| 4000 | 3800 | 1000 | 800 | 0.8 | 4000 | 3800 | 800 | 1000 | 0.8 |
| 5000 | 4600 | 1000 | 800 | 0.8 | 5000 | 4550 | 750 | 1000 | 0.75 |

| ٢ | | _ | | | | | | | | |
|---|------|--|------|-----|-----|------|------|-----|------|------|
| | 6000 | 5400 | 1000 | 800 | 0.8 | 6000 | 5250 | 700 | 1000 | 0.7 |
| | 7000 | 6200 | 1000 | 800 | 0.8 | 7000 | 5900 | 650 | 1000 | 0.65 |
| | | It is so because the same proportion of additional income is spent on consumption. | | | | | | | | |

ii) Important points for MPC:

Value of MPC varies between 0 and 1: As we know that increase in income is either spent on consumption or saved for future use.

- > If the entire additional income is consumed, i.e., $\Delta Y = \Delta C + \Delta S[0]$. Then, $\Delta Y = \Delta C$ and $\mathbf{MPC} = \frac{\Delta \mathbf{C}}{\Delta \mathbf{V}} = 1$.
- Fig. 1. Fig. 2. Fig.
- MPC falls with the successive increase in income: It happens because as an economy becomes richer, it has the tendency to consume smaller percentage of each increment to its income.
- 5. **Propensity to save (or saving function)** shows the functional relationship between aggregate savings and income.



$$S = f(Y)$$

In other words, the part of income which is not spent on current consumption is known as saving.

By deducting consumption expenditure (C) from income(Y), we get saving(S).

$$S = Y - C$$

The saving function can be derived from the consumption function in the following manner:

$$C = \overline{C} + bY$$

As we know, income is either consumed or saved:

$$Y = C + S$$
 or $S = Y - C$

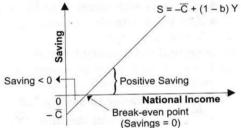
$$S = Y - (\bar{C} + bY) = Y - \bar{C} - bY = -\bar{C} + Y - bY = -\bar{C} + (1 - b) Y$$

$$S = -\bar{C} + MPSY$$

Where,

- $-\bar{C}$ = Dis-saving or negative saving which is equal to the minimum consumption when income is zero
- 1 b = MPS or the rate at which savings increase
- (b) It can be explained with the help of following schedule and diagram:

| Y | C | S = Y - C |
|------|----|-----------|
| 0 | 20 | -20 |
| , 10 | 25 | -15 |
| 20 | 30 | -10 |
| 30 | 35 | -5 |
| 40 | 40 | 0 |
| 50 | 45 | 5 |



- It is evident from the saving-function schedule and diagram that as income increases saving also increases. Saving can be both negative and positive. Prior to breakeven point saving is negative, at break-even point saving is zero and after the break-even point saving is positive.
- c) Important points for Saving function:
- i) Starting Point of Saving Curve:
 - Saving curve (SS) starts from point _c on the Y-axis, indicating that there is negative saving (equal to amount of autonomous consumption) when national income is zero.

Note: Saving curve will have a negative intercept on Y-axis of the same magnitude as the consumption curve has positive intercept on the Y-axis. It happens because if consumption is positive at zero level of income, then there would be dis-savings of the same magnitude.

• Break-even point (S = 0).



Y National Income

Saving curve crosses the X-axis at point R which is known as break-even point as at this point saving is zero (or consumption is equal to income).

- Positive Saving: After the break-even point saving is positive.
- 6. Types of propensity to save
 - a) Average propensity to save (APS):
 - i) Ratio of aggregate saving to aggregate income is known as average propensity to save (APS). By dividing aggregate saving by aggregate income, we get APS. Symbolically,

$$\mathbf{APS} = \frac{\mathbf{Saving}\left(\mathbf{S}\right)}{\mathbf{Income}\left(\mathbf{Y}\right)}$$

For instance, if income (Y) is ₹100 crore and saving (S) is ₹40 crore, then APS = 40/100 = 0.4. This indicates that 40% of the income is saved and 60% is consumed. APS is shown diagrammatically: $S = -\overline{C} + (1 - b) Y$

| Y | s | $\mathbf{APS} = \frac{\mathbf{S}}{\mathbf{Y}}$ |
|------------|-----------|--|
| ₹100 Crore | ₹40 Crore | 0.4 |

$$APS = \frac{S}{Y} = \frac{OS}{OY}$$

- ii) Important Points for APS:
 - APS can never be 1 or more than one.
 - As saving can never be equal to or more than national income.
 - APS can be 0: APS is 0 when income is equal to consumption i.e., saving = 0. This point is known as break-even point.
 - APS can be negative or less than 1.
 - At income levels which are lower than the break-even point APS can be negative as there will be dis-savings in the economy.
 - APS rises with increase in income.
 - APS rises with the increase in income because the proportion of income saved keeps on increasing.
 - b) Marginal Propensity to Save:
 - i) Ratio of change in saving (Δ S) to change in income (Δ Y) is called MPS. It is proportion of income saved out of additional (incremental) income. Symbolically,

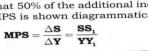


National Income

Notes

 $\mathbf{MPS} = \frac{\mathbf{Change\ in\ saving}\left(\Delta\mathbf{S}\right)}{\mathbf{Change\ in\ income}\left(\Delta\mathbf{Y}\right)}$

(ii) For instance, if the income goes up from ₹100 crore to ₹200 crore and consequently saving (S) rises from ₹50 crore to ₹100 crore, MPS = 50/100 = 0.5 or 50%. It indicates that 50% of the additional income is saved. MPS is shown diagrammatically as,



| Y | s | $\mathbf{MPS} = \frac{\Delta \mathbf{S}}{\Delta \mathbf{Y}}$ |
|-----|-----|--|
| 100 | 50 | _ |
| 200 | 100 | 50/100 = 0.5 |

- (c) Important points for MPS: MPS varies between 0 and 1
 - If the entire additional income is saved, i.e., $\Delta C = 0$, MPS = $\frac{\Delta S}{\Delta Y} = 1$.
 - However, if the entire additional income is consumed, i.e., $\Delta S = 0$, MPS = 0. In normal situations value of MPS varies between 0 and 1.

Important Terms:

- Aggregate demand: It is aggregate expenditure on ex-ante (planned) consumption and ex-ante (planned) investment that all sectors of the economy are willing to incur at each income level.
- Induced Investment: It refers to the investment which is made with the motive of earning profit.
- Autonomous Investment: It refers to the investment, which is made irrespective of level of income.
- Aggregate Supply: Aggregate supply is the total amount of money value of goods and services, (which is paid to the factor of production against their factor services) that all the producers are willing to supply in an economy.
- Consumption Function: Consumption function(Propensity to consume) expresses functional relationship between aggregate consumption and national income. Thus, consumption (C) is a function of income (Y).

$$C = F(Y)$$
 and $C = C + bY$

- Autonomous Consumption: It refers to minimum level of consumption i.e. (c), which is needed for survival, i.e., consumption at zero level of national income.
- Keynes' Psychological law of Consumption: According to Keynes, as income increases consumption expenditure also increases but increase in consumption is smaller than the increase in income. In other words, consumption lags behind income.
- Break even Point: Break-even point refers to that point in the level of income at which consumption is just equal to income.



In other words, whole of income is spent on consumption and there is no saving.

 Average Propensity to Consume: The ratio of aggregate consumption expenditure to aggregate income is known as average propensity to consume.

APC=C/Y

- Marginal Propensity to consume: Ratio of change in consumption (C) to change in income
- (Y) is known as marginal propensity to consume. It indicates the proportion of additional income that is being spent on consumption.

 $MPC = \Delta C/\Delta Y$

 Saving Function: Saving function (Propensity to save) shows the functional relationship between aggregate savings and income.

S = f(Y) and S = -C + (1 - b) Y

 Average Propensity to Save: The ratio of aggregate saving to aggregate income is known as average propensity to save (APS).

APS=S/Y

• Marginal Propensity to Save: The ratio of change in saving (Δ S) to change in income (Δ Y) is called MPS. It is proportion of income saved out of additional (incremental) income. Symbolically,

 $MPC = \Delta S/\Delta Y$

Chapter 6 - National Income Determination and Multiplier

National Income Determination Under Aggregate Demand And Supply Approach And Saving, Investment Approach, Effective Demand

1. Determination of equilibrium level of national income Or

Keynesian theory of income and employment

a) It refers to that point which has come to be established under the given condition of aggregate demand and aggregate supply, and has tendency to stick to that level under this given condition: Condition to get equilibrium level of NY

AD = AS





Investment = Saving

How is Investment = Saving? Here,

$$AD = AS$$

$$C + I = C + S$$

$$I = C + S - C$$

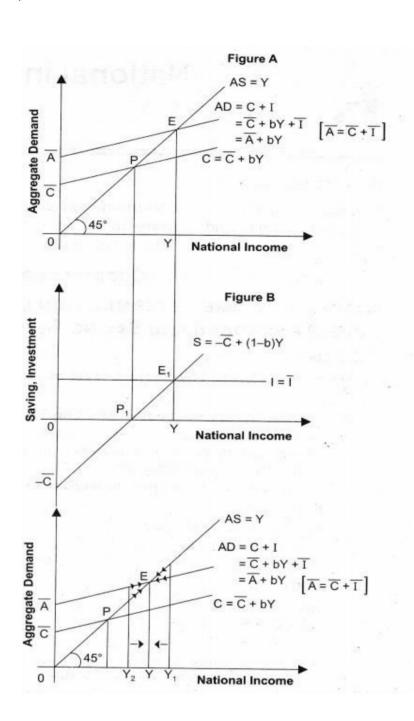
$$I = S$$

- b) If due to some disturbance, we divert from that position, then the economic forces will work in such a manner so as to drive us back to the original position, i.e., aggregate demand is equal to aggregate supply.
- c) Any movement from that point would be unstable. In short, it is a position of rest.
- d) It can be explained with the help of following schedule and diagram:

| NY | C | S | I | AD | AS | Resulting tendency |
|------|------|-----|-----|------|------|--------------------|
| 3000 | 3000 | NIL | 400 | 3400 | 3000 | Expansion |
| 4000 | 3800 | 200 | 400 | 4200 | 4000 | Expansion |
| 5000 | 4600 | 400 | 400 | 5000 | 5000 | Equilibrium |
| 6000 | 5400 | 600 | 400 | 5800 | 6000 | Contraction |
| 7000 | 6200 | 800 | 400 | 6600 | 7000 | Contraction |

a) Figure B is derived from figure A. In figure A at point P, income is equal to consumption, which is known as to be breakeven point. Corresponding to point P, we derive point P1; in figure B, where saving is equal to zero. In figure A, the equilibrium level of national income is attained at point E, where aggregate supply = aggregate demand. Corresponding to point E, we derive the point E1, where saving = investment.





- 2. Determination of equilibrium level of national income through Aggregate demand-Aggregate Supply Approach
 - a) It refers to the point that has come to be established under the given condition of aggregate demand and aggregate supply, and has tendency to stick to that level under this given condition where Aggregate Demand = Aggregate Supply.
 - b) If due to some disturbance, we divert from that position, the economic forces will work in such a manner so as to drive us back to the original position, i.e., aggregate demand is equal to aggregate supply.



- **Notes**
- c) In the above mentioned figure, at point P, income = consumption, which is known as to be a break-even point. The equilibrium level of national income is attained at point E, where aggregate demand = aggregate supply.
- d) If due to some disturbance we divert from our position, like when AD > AS [at Y2], then, production will have to be increased to meet the excess demand. Consequently, national income will increase. As we know positive relationship exists between national income and consumption, so consumption will increase, which will thereby increase the aggregate demand till we reach the equilibrium.
- e) As against it, when **AD < AS [at Y1]**, then there would be stockpiling and producers will produce less. National income will fall and as a result consumption will start falling, which will thereby fall the aggregate demand till we reach the equilibrium.

3. Ex-ante saving and ex-ante investment:

- (i) In an economy what we plan (or intend or desire) to save during a particular period is called ex- ante saving.
- (ii) Against it, what we plan (or intend or desire) to invest during a particular period is called ex-ante investment.

Ex-post saving and ex-post investment.

- (i) In an economy what we actually save or what is left after deducting consumption expenditure from income is called ex-post (or realized) saving.
- (ii) As against it what we actually invest or what we actually add to the physical assets of an economy is called ex-post (or realized) investment.

4. Determination of equilibrium level of national income through Saving-Investment Approach

a) It refers to the point that has come to be established under the given condition of aggregate demand and aggregate supply, and has tendency to stick to that level under this given condition where

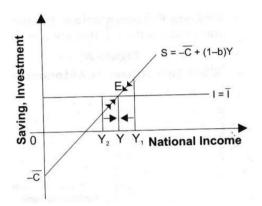
Aggregate Demand (AD)= Aggregate Supply (AS). AD = AS

Consumption (C) + Investment (I) = Consumption (C) + Saving (S)

I = S



b) If due to some disturbance, we divert from that position, the economic forces will work in such a manner so as to drive us back to the original position, i.e., Saving is equal to Investment.



- c) In above figure, the equilibrium level of national income is attained at point E, where saving = investment which is derived from a point where AD = AS.
- d) If due to some disturbance we divert from our position like when **investment > saving [at Y2]**, then production will have to be increased to meet the excess demand. Consequently, national income will increase leading to rise in saving until saving becomes equal to investment. It is here that equilibrium level of income is established because what the savers intend to save becomes equal to what the investors intend to invest.
- e) As against it, when saving > investment [at Y1], then there would be stockpiling and producers will produce less.

 .National income will fall and as a result saving will start falling until it becomes equal to investment. It is here the equilibrium level of income is derived.
- 5. **Effective Demand:** The level at which the economy is in equilibrium, i.e., where aggregate demand = aggregate supply, is called effective demand. It can also be explained with the help of the following table:

| NY | С | S | I | AD | AS | Resulting tendency |
|------|------|-----|-----|------|------|--------------------|
| 3000 | 3000 | NIL | 400 | 3400 | 3000 | Expansion |
| 4000 | 3800 | 200 | 400 | 4200 | 4000 | Expansion |
| 5000 | 4600 | 400 | 400 | 5000 | 5000 | \ Equilibrium |
| 6000 | 5400 | 600 | 400 | 5800 | 6000 | Contraction |
| 7000 | 6200 | 800 | 400 | 6600 | 7000 | Contraction |

Effective Demand



Paradox Of Thrift, It's Reasons With Numirical Example

- **Notes**
- 1. Term thrift means savings and the paradox of thrift shows how an attempt by the economy as a whole to save more out of its current income will ultimately results in lower savings for the economy.
- 2. If all the people in the economy make an effort to save more, then the total savings of the community will not increase, on the contrary they will decrease. This is called the **paradox of thrift.**
- 3. Reasons for "Paradox of thrift" to operate
- a) As we know that one person's expenditure is another person's income.
- b) If individual 'A' decides to save more by reducing his consumption expenditure, the income of individual 'B' will be less and individual 'B' in turn will spend less.
- c) Thus, if all individuals in the economy decide to save more, the income received by each individual will be less and overall income will fall and also lower will be the total savings.
- 4. **Diagram Representation:** The concept of paradox of thrift with the help of diagrams and mathematical illustration is as under:

Figure A
When Investment is Autonomous

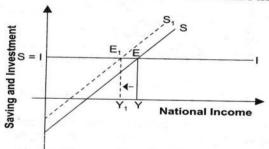
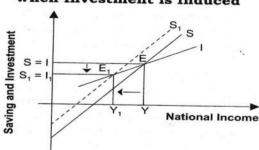


Figure B When Investment is Induced



When Investment is Autonomous When Investment is Induced

a) Paradox of thrift fails in keyne's theory (when Investment is autonomous):

In figure A, society, households plan to save more at each income level. So, saving curve shifts up and left from S to . Equilibrium national income falls from Y to Yr The thing which has to be remembered is that savings is equal to autonomous investment, that is, remains unchanged.

b) Paradox of thrift is possible when investment is induced: In figure B, we have induced investment function which makes



the investment curve upward positively sloping. With the increase in savings, not only the equilibrium income falls, but also savings decline.

- 5. **Numerical Illustration**: Suppose the original savings function is given as, S = -50 + 0.5Y and investment (I) = 25 + 0.25Y.
 - Equilibrium level of income will be attained at the level where Saving = Investment ! -50 + 0.5Y = 25 + 0.25Y

$$25Y = 75 Y = 300$$

- Therefore, savings at Y=300 will be S = -50 + 0.5 (300) = 100
- Suppose, every individual in the economy decides to save 25 more at each level of income. The new savings function will be

$$S2 = -50 + 25 + 0.5Y - -25 + 0.5Y$$
.

 The new equilibrium income will be attained at the level where s2 = i

$$-25 + 0.5Y = 25 + 0.25Y \ 0.25Y = 50 \ Y = 200$$

- Therefore, savings at Y = 200 will be S = -25 + 0.5 (200) = -25 + 100 = 75
- Thus, when everybody in the economy decides to save more, the equilibrium level of income falls and the total savings also fall. This is called the paradox of thrift.

Elements In Understanding Investment (Marginal Efficiency Of Investment And Market Rate Of Interest), Investment Demand Function

- 1. Elements In Understanding Investment: A private investor's demand for investment depends on two things:
- a) Rate of return on investment or M.E.I: The expected rate of return from'an additional unit of investment is called marginal efficiency of investment (M.E.I). It is defined as the expected rate of return of an additional unit of capital goods. M.E.I is very important factor in determining the investment demand. M.E.I. is determined by two factors.
- i) **Supply Price:** The cost of replacing the machine under consideration with a brand new machine is known its supply



- price. For example, if a machine of Rs.1 lakh is replaced in place of old machine, then Rs. 1 lakh is the supply price.
- ii) **Prospective Yields:** It refers to expected net returns(of all costs) from the capital asset over its lifetime. For example, if the given machine is expected to yield revenue of Rs. 10,000 and running expenditure is Rs.2000, the prospective yield will be, 10000 2000 = 8000.
- iii) Formula of Marginal efficiency of investment: In the given examples, marginal efficiency of investment will be,

$$MEI = \frac{Prospective Yield}{Supply Price} \times 100$$

$$\frac{8000}{100000} \times 100 = 8\%$$

- b) Market Rate of Interest: It refers to cost of funds borrowed for financing the investment. There exists inverse relationship between rate of interest and investment demand. Higher interest implies lower level of investment demand.
- c) Decision whether to invest or not
- i) **Investor goes on making additional investments** until M.E.I becomes equal to the rate of interest. If M.E.I is greater than the rate of interest, the investors has to increase the investment and if the rate is higher than the M.E.I, no investment is to be made.
- ii) For example, if an entrepreneur has to pay 15% market rate of interest on the loan taken by him and he expected rate of profit i.e., M.E.I. is 30%, then he will surely go for the investment and will continue making investment till M.E.I. = Rate of Interest (ROI).
- 2. **Investment demand function:** Investment demand function is the relationship between rate of interest and investment demand. There exists inverse relationship between rate of interest and investment demand. Higher interest implies lower level of investment demand.

Concepts Of Investment Multiplier

1. Investment Multiplier

Meaning: The ratio of change in national income (Δ Y) due to a change in investment (Δ I) is known as multiplier (K).



Formula:

$$K = \frac{\Delta Y}{\Delta I}$$
 or $K \times \Delta I = \Delta Y$

Where K is multiplier,

$$K = \frac{1}{1 - MPC}$$
 or $K = \frac{1}{MPS}$

Derivation of Formula: As we know that,

$$Y = C + I \qquad \dots (i)$$

Multiplying the whole equation by Δ , we get,

 $\Delta Y = \Delta C + \Delta I$...(ii) Dividing both sides of (ii) by ΔY , we get,

 $\frac{\Delta Y}{\Delta Y} = \frac{\Delta C}{\Delta Y} + \frac{\Delta I}{\Delta Y}$

$$\frac{\Delta Y}{\Delta Y} = \frac{\Delta Y}{\Delta Y} + \frac{\Delta Y}{\Delta Y} \qquad \dots (iii)$$

Or $1 = \frac{\Delta C}{\Delta Y} + \frac{\Delta I}{\Delta Y}$...(iv) Rearranging (iv), we get,

$$\frac{\Delta I}{\Delta Y} = 1 - \frac{\Delta C}{\Delta Y} \qquad \dots (v)$$

Or Reciprocately.

$$\frac{\Delta Y}{\Delta I} = \frac{1}{1 - \frac{\Delta C}{\Delta Y}} \qquad ...(vi)$$

As we know, $K = \frac{\Delta Y}{\Delta I}$ and $\frac{\Delta C}{\Delta Y} = MPC$, we get,

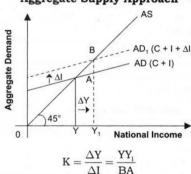
$$K = \frac{1}{1 - MPC}$$

Since, MPC + MPS = 1, we obtain,

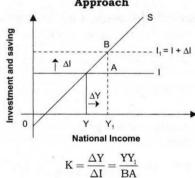
$$K = \frac{1}{MPS}$$

(d) Diagrammatically Representation of Multiplier

Through Aggregate demand and **Aggregate Supply Approach**



Through Saving and Investment Approach



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(e) Maximum Value of Multiplier

(i) The multiplier can have the maximum value if MPC = 1. As we know,

$$K = \frac{1}{1-MPC} = \frac{1}{1-1} = \tilde{\infty}$$

(ii) The multiplier can have the maximum value if MPS =0. As we know,

$$K = \frac{1}{MPS} = \frac{1}{0} = \infty$$

(f) Minimum Value of Multiplier

(i) The multiplier can have the minimum value if MPC becomes(0) zero. As we know,

$$K = \frac{1}{1 - MPC} = \frac{1}{1 - 0} = 1$$

(ii) The multiplier can have the minimum value if MPS =1. As we know,

$$K = \frac{1}{MPS} = \frac{1}{1} = 1$$

(g) Relationship between Marginal Propensity to consume (MPC) and multiplier.

- (i) If we put maximum value of MPC, i.e., 1, we get maximum value of multiplier, i.e., ∞ .
- (ii) As against it, if we put minimum value of MPC, i.e., 0, we get the minimum value of multiplier, i.e. 1.
- (iii) So, positive relationship exists between MPC and multiplier. It means when MPC increases, the multiplier also increases and vice-versa.

$$MPC \uparrow \rightarrow K \uparrow$$

(h) Relationship between Marginal Propensity to Save (MPS) and multiplier.

- (i) If we put minimum of MPS i.e. 0, we get maximum value of multiplier, i.e., ∞ .
- (ii) As against it if we get maximum value of MPS, i.e., 1, if we get minimum value of multiplier, i.e., 1.
- (iii) Hence, inverse relationship exists between MPS and multiplier. It means if MPS increases, the multiplier decreases and vice-versa.

$$MPS \uparrow \rightarrow K \downarrow$$

Important Terms:

- Ex-ante saving: In an economy what we plan (or intend or desire) to save during a particular period is called ex-ante saving.
- Ex-ante Investment: In an economy, what we plan (or intend or desire) to invest during a particular period is called ex-ante investment.
- Expost Saving: In an economy what we actually save or what is left after deducting consumption expenditure from income is called ex-post (or realized) saving.
- Expost Investment: In an economy, what we actually invest or what we actually add to the physical assets of an economy is called ex-post (or realized) investment.
- Effective Demand: The level at which the economy is in equilibrium, i.e., where aggregate demand = aggregate supply, is called effective demand.



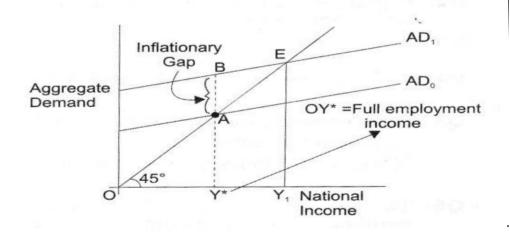
- **Notes**
- Paradox of Thrift: The term thrift means savings and the paradox of thrift shows how an attempt by the economy as a whole to save more out of its current income will ultimately results in lower savings for the economy.
- Marginal efficiency of Investment: The expected rate of return from an additional unit of investment is called marginal efficiency of investment (M.E.I). In other words, it is the expected rate of return of an additional unit of capital goods.
- Supply Price: The cost of replacing the machine under consideration with a brand new machine is known its supply price.
- Prospective Yields: It refers to expected net returns (of all costs) from the capital asset over its lifetime.
- Market Rate of Interest: It refers to cost of funds borrowed for financing the investment. There exists inverse relationship between rate of interest and investment demand. Higher interest implies lower level of investment demand.
- **Multiplier**: The ratio of change in national income (ΔY) due to change in investment (ΔI) is known as multiplier (K).

Chapter 7 - Excess Demand and Deficient Demand

Excess Demand And Its Related Concepts

1. Excess Demand and Inflationary Gap:

a) When in an economy, aggregate demand exceeds "aggregate supply at full employment level", the demand is said to be an excess demand.





- b) **Inflationary gap** is the gap showing excess of current aggregate demand over 'aggregate supply at the level of full employment'. It is called inflationary because it leads to inflation (continuous rise in prices).
- c) A simple example will further -clarify it. Let us suppose that an imaginary economy by employing all its available resources can produce 10,000 quintals of rice. If aggregate demand of rice is say 12,000 quintals, this demand will be called an excess demand, because aggregate supply at level of full employment of resources is only 10,000 quintals and the result of the gap of 2000 quintals will be called as inflationary gap. In the above diagram Inflationary gap is AB because at Full employment Y*, Aggregate demand (BY*) is greater than Aggregate Supply(AY*).
- 2. **Reasons or causes for excess demand**: The main reasons for excess demand are apparently the increase in the following components of aggregate demand:
 - a) Increase in household consumption demand due to rise in propensity to consume.
 - b) Increase in private investment demand because of rise in credit facilities.
 - c) Increase in public (government) expenditure.
 - d) Increase in export demand.
 - e) Increase in money supply or increase in disposable income.
- 3. Impacts or effects of excess demand on price, output, employment:
 - a) Effect on General Price Level: Excess demand gives a rise to general price level because it arises when aggregate demand is more than aggregate supply at a full employment level. There is inflation in economy showing inflationary gap.
 - b) Effect on Output: Excess demand has no effect on the level of output. Economy is at full employment level and there is no idle capacity in the economy. Hence output can't increase.
 - c) Effect on Employment: There will be no change in thq. level of employment also.

The economy is already operating at full employment equilibrium, and hence, there is no unemployment.

- 4. Measures to control the excess demand: We can control the excess demand with the help of the following policy:
- a) Monetary PolicyMonetary policy is the policy of the central bank of a countiy to



control money supply and availability of credit in the economy. The central bank can take the following steps:

i) Quantitative Instruments or General Tools of Monetary Policy: These are the instruments of monetary policy that affect overall supply of money/credit in the economy. These instruments do not direct or restrict the flow of credit to some specific sectors of the economy. They are as under

Bank Rate or Discount Rate (Increase in Bank Rate)

- Bank rate is the rate of interest at which central bank lends to commercial banks without any collateral (security for purpose of loan). The thing, which has to be remembered, is that central bank lends to commercial banks and not to general public.
- In a situation of excess demand leading to inflation
- Central bank raises bank rate that discourages commercial banks in borrowing from central bank as it will increase the cost of borrowing of commercial bank.
- It forces the commercial banks to increase their lending rates, which discourages borrowers from taking loans, which discourages investment.
- Again high rate of interest induces households to increase their savings by restricting expenditure on consumption.
- Thus, expenditure on investment and consumption is reduced, which will control the excess demand.

Repo Rate (Increase in Repo Rate):

- Repo rate is the rate at which commercial banks borrow money from the central bank for short period by selling their financial securities to the central bank.
- These securities are pledged as a security for the loans.
- It is called Repurchase rate as this involves commercial bank selling securities to RBI to borrow the money with an agreement to repurchase them at a later date and at a predetermined price.
- So, keeping securities and borrowing is repo rate.
- In a situation of excess demand leading to inflation
- Central bank raises repo rate that discourages commercial banks in borrowing from central bank as it will increase the cost of borrowing of commercial bank.

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- It forces the commercial banks to increase their lending rates, which discourages borrowers from taking loans, which discourages investment.
- Again high rate of interest induces households to increase their savings by restricting expenditure on consumption.
- Thus, expenditure on investment and consumption is reduced, which will control the excess demand.

Reverse Repo Rate (Increase in Reverse Repo Rate):

- It is the rate at which the central bank (RBI) borrows money from commercial bank.
- In a situation of excess demand leading to inflation, Reverse repo rate is increased, it encourages the commercial bank to park their funds with the central bank to earn higher return on idle cash. It decreases the lending capability of commercial banks, which controls excess demand.

Open Market Operations (OMO) (Sale of securities):

- It consists of buying and selling of government securities and bonds in the open market by central bank.
- In a situation of excess demand leading to inflation, central bank sells government securities and bonds to commercial bank. With the sale of these securities, the power of commercial bank of giving loans decreases, which will control excess demand.

Increase in Varying Reserve Requirements or Legal Reserve Ratio:

 Banks are obliged to maintain reserves with the central bank, which is known as legal reserve ratio. It has two components. One is the Cash Reserve Ratio or CRR and the other is the SLR or Statutory Liquidity Ratio.

Cash Reserve Ratio (Increase in CRR):

- It refers to the minimum percentage of a bank's total deposits, which
- it is required to keep with the central bank. Commercial banks have to keep with the central bank a certain percentage of their deposits in the form of cash reserves as a matter of law.



- **Notes**
- For example, if the minimum reserve ratio is 10% and total deposits of a certain bank is Rs.100 crore, it will have to keep Rs.10 crore with the central bank.
- In a situation of excess demand leading to inflation, cash reserve ratio (CRR) is raised to 20 per cent, the bank will have to keep Rs.20 crore with the central bank, which will reduce the cash resources of commercial bank and reducing credit availability in the economy, which will control excess demand.

Statutory Liquidity Ratio (Increase SLR):

- It refers to minimum percentage of net total demand and time liabilities, which commercial banks are required to maintain with themselves.
- In a situation of excess demand leading to inflation, the central bank increases statutory liquidity ratio (SLR), which will reduce the cash resources of commercial bank and reducing credit availability in the economy.
- ii) Qualitative Instruments or Selective Tools of Monetary Policy: These instruments are used to regulate the direction of credit. They are as under:

Imposing margin requirement on secured loans (Increase):

- Business and traders get credit from commercial bank against the security of their goods. Bank never gives credit equal to the full value of the security. It always pays less value than the security.
- So, the difference between the value of security and value of loan is called marginal requirement.
- In a situation of excess demand leading to inflation, central bank raises marginal requirements. This discourages borrowing because it makes people get less credit against their securities.

Moral Suasion:

- Moral suasion implies persuasion, request, informal suggestion, advice and appeal by the central banks to commercial banks to cooperate with general monetary policy of the central bank.
- In a situation of excess demand leading to inflation, it appeals for credit contraction.



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Selective Credit Control (SCC) [Introduce Credit Rationing]:

- In this method the central bank can give directions to the commercial banks not to give credit for certain purposes or to give more credit for particular purposes or to the priority sectors.
- In a situation of excess demand leading to inflation, the central bank introduces rationing of credit in order to prevent excessive flow of credit, particularly for speculative activities. It helps to wipe off the excess demand.
- b) Fiscal Policy: The expenditure and revenue policy taken by the general government to accomplish the desired goals is known as fiscal policy. A general government can take the following steps:
 - a) Revenue Policy (Increase Taxes):
 - Revenue policy is expressed in terms of taxes.
 - During inflation the government impose higher amount of taxes causing the decrease in purchasing power of the people.
 - It is so because to control excess demand we have to reduce the amount of liquidity from the economy.
 - b) Expenditure Policy (Reduces Expenditure):
 - Government has to invest huge amount on public works like roads, buildings, irrigation works, etc.
 - During inflation, government should curtail (reduce) its expenditure on public works like roads, buildings, irrigation works thereby reducing the money income of the people and their demand for goods and services.

c) Increase in Public Borrowing/Public Debt:

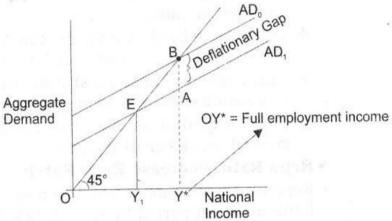
- This measure means that government should raise loans from public and hence borrowing decreases the purchasing power of people by leaving them with lesser amount of money.
- So, government should resort to more public borrowing during excessive demand.
- Government should make long term debts more attractive so that public may use their excess liquidity amount of money in purchasing these bonds, which will reduce the liquidity amount of money in the economy and thereby inflation could be controlled

Deficient Demand And Its Related Concepts



1. Deficient Demand or Deflationary Gap:

a) When in an economy, aggregate demand falls short of aggregate supply at full employment level, the demand is said to be a deficient demand.



- b) Deflationary gap is the gap showing Demand deficient of current aggregate demand over 'aggregate supply at the level of full employment'. It is called deflationary because it leads to deflation (continuous fall in prices).
- c) Let us suppose that an imaginary economy by employing all its available resources can produce 10,000 quintals of rice. If aggregate demand of rice is, say 8,000 quin tals, this demand will be called a deficient demand and the gap of 2000 quintals will be called as deflationary gap. Clearly here equilibrium between AD and AS is at a point less than level of full employment. Keynes called it an under employment equilibrium.
- 2. Reasons or causes for deficient demand: The main reasons for deficient demand are apparently the decrease in four components of aggregate demand:
 - a) Decrease in household consumption demand due to fall in propensity to consume.
 - b) Decrease in private investment demand because of fall in credit facilities.
 - c) Decrease in public (government) expenditure.
 - d) Decrease in export demand.
 - e) Decrease in money supply or decrease in disposable income.
- 3. Impacts or effects of deficient demand:
 - a) Effect on General Price Level: Deficient demand causes the general price level to fall because it arises when aggregate demand is less than aggregate supply at full employment level. There is deflation in an economy showing deflationary gap.



- b) **Effect on Employment**: Due to deficient demand, investment level is reduced, which causes involuntary unemployment in the economy due to fall in the planned output.
- c) **Effect on Output**: Low level of investment and employment implies low level of output.
- 4. Measures to Control the deficient demand: We can control the deficient demand with the help of the following policies:
 - a) **Monetary Policy**: Monetary policy is the policy of the central bank of a country of controlling money supply and availability of credit in the economy. The central bank takes the following steps:
 - i) Quantitative Instruments or General Tools of Monetary Policy: These are the instruments of monetary policy that affect overall supply of money/credit in the economy. These instruments do not direct or restrict the flow of credit to some specific sectors of the economy. They are as under:
 - Bank Rate or Discount Rate (Decrease in Bank Rate):
 - Bank rate is the rate of interest at which central bank lends to commercial banks without any collateral (security for purpose of loan). The thing, which has to be remembered, is that central bank lends to commercial banks and not to general public.
 - In a situation of deficient demand leading to deflation,
 - Central bank decreases bank rate that encourages commercial banks in borrowing from central bank as it will decrease the cost of borrowing of commercial bank.
 - Decrease in bank rate makes commercial bank to decrease their lending rates, which encourages borrowers from taking loans, which encourages investment.
 - Again low rate of interest induces households to decrease their savings by increasing expenditure on consumption.
 - Thus, expenditure on investment and consumption increase, which will control the deficient demand.
 - Repo Rate (Decrease Repo Rate):
 - Repo rate is the rate at which commercial banks borrow money from the central bank for short period by selling their financial securities to the central bank.
 - These securities are pledged as a security for the loans.
 - It is called Repurchase rate as this involves commercial bank selling securities to RBI to borrow the money with an agreement to repurchase them at a later date and at a predetermined price.
 - So, keeping securities and borrowing is reporate.



- In a situation of deficient demand leading to deflation,
- Central bank decreases Repo rate that encourages commercial banks in borrowing from central bank as it will decrease the cost of borrowing of commercial bank.
- Decrease in Repo rate makes commercial banks to decrease their lending rates, which encourages borrowers from taking loans, which encourages investment.
- Again low rate of interest induces households to decrease their savings by increasing expenditure on consumption.
- Thus, expenditure on investment and consumption increase, which will control the deficient demand.

Reverse Repo Rate (Decrease Reverse Repo Rate):

- It is the rate at which the central bank (RBI) borrows money from commercial bank.
- In a situation of deficient demand leading to deflation, Reverse repo rate is decreased, it discourages the commercial bank to park their funds with the central bank. It increases the lending capability of commercial banks, which controls deficient demand.

Open Market Operation (Purchase of Securities):

- It consists of buying and selling of government securities and bonds in the open market by central bank.
- In a situation of deficient demand leading to deflation, central bank purchases government securities and bonds from commercial bank. With the purchase of these securities, the power of commercial bank of giving loans increases, which will control deficient demand.

• Decrease in Varying Reserve Requirements:

 Banks are obliged to maintain reserves with the central bank, which is known as legal reserve ratio. It has two components. One is the Cash Reserve Ratio or CRR and the other is the SLR or Statutory Liquidity Ratio.

• Cash Reserve Ratio (Decrease):

• It refers to the minimum percentage of a bank's total deposits, which is required to keep with the central bank. Commercial banks have to keep with the central bank a certain percentage of their deposits in the form of cash reserves as a matter of law.

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- For example, if the minimum reserve ratio is 10% and total deposits of a certain bank is Rs. 100 crore, it will have to keep Rs.10 crore with the central bank.
- In a situation of deficient demand leading to deflation, cash reserve ratio (CRR) falls to 5 per cent, the bank will have to keep Rs. 5 crore with the central bank, which will increase the cash resources of commercial bank and increasing credit availability in the economy, which will control deficient demand.

• Statutory Liquidity Ratio (SLR) (Increase):

- It refers to minimum percentage of net total demand and time liabilities, which commercial banks are required to maintain with themselves.
- In a situation of deficient demand leading to deflation, the central bank decreases statutory liquidity ratio (SLR), which will increase the cash resources of commercial bank and increases credit availability in the economy.

ii) Qualitative Instruments or Selective Tools of Monetary Policy:

These instruments are used to regulate the direction of credit. They are as under:

• Imposing margin requirement on secured loans(Decrease):

- Business and traders get credit from commercial bank against the security of their goods. Bank never gives credit equal to the full value of the security. It always pays less value than the security.
- So, the difference between the value of security and value of loan is called marginal requirement.
- In a situation of deficient demand leading to deflation, central bank decreases marginal requirements. This encourages borrowing because it makes people get more credit against their securities.

Moral Suasion:

- Moral suasion implies persuasion, request, informal suggestion, advice and appeal by the central banks to commercial banks to cooperate with general monetary policy of the central bank.
- In a situation of deficient demand leading to deflation, it appeals for credit expansion.

• Selective Credit Controls (SCCs):

 In this method the central bank can give directions to the commercial banks not to give credit for certain purposes



or to give more credit for particular purposes or to the priority sectors.

- In a situation of deficient demand leading to deflation, the central bank withdraws rationing of credit and make efforts to encourage credit.
- 2. **Fiscal Policy**: The expenditure and revenue policy taken by the general government to accomplish the desired goals is known as fiscal policy. A general government has to take the following steps:

a) Revenue Policy (Decrease in Taxes):

- (i) Revenue policy is expressed in terms of taxes.
- (ii) During deflation the government will impose lower amount of taxes so that purchasing power of the people be increased.
- (iii) It is so because to control deficient demand we have to increase the amount of liquidity in the economy.

b) Expenditure Policy (Increase in Expenditure):

- (i) Government has to invest huge amount on public works like roads, buildings, irrigation works, etc.
- (ii) During deflation government should increase its expenditure on public works like roads, buildings, irrigation works thereby increasing the money income of the people and their demand for goods and services.

c) Decrease in Public Borrowing / Public Debt:

- (i) At the time of deficient demand public borrowing should be reduced.
- (ii) People will have more money and more purchasing power.
- (iii) In brief, during period of deficient demand government should adopt the pricing of deficit budget.
- (iv) Old taken debts from public should be finished and paid back to increase money in the market.

Full Employment, Voluntary Unemployment And Involuntary Unemployment

1. Full employment:

- (i) Full employment equilibrium refers to the situation where aggregate demand is equal to aggregate supply, and all those who are able to work and willing to work (at the existing wage rate) are getting work.
- (ii) Full employment doesn't means that there is no unemployment in an economy. Unemployment also exists



at full employment level because of voluntary unemployment.

2. Voluntary unemployment:

- (i) Voluntary unemployment refers to the situation when a person is unemployed because he is not willing to work at the existing wage rate, even when work is available.
- (ii) Suppose, if the market wage rate for MBA in the industries is Rs.8,000 a month, but some of the qualified MBA's refuse to accept job at Rs.8,000 a month, they will be considered as voluntarily unemployed.

3. Involuntary unemployment:

(i) Involuntary unemployment refers to a situation in which all able and willing persons to work at existing wage-rate do not find work.

Important Terms

- Excess Demand: When in an economy, aggregate demand exceeds "aggregate supply at full employment level", the demand is said to be an excess demand.
- Inflationary gap: It is the gap showing excess of current aggregate demand over 'aggregate supply at the level of full employment'. It is called inflationary because it leads to inflation (continuous rise in prices).
- **Deficient demand:** When in an economy, aggregate demand falls short of aggregate supply at full employment level, the demand is said to be a deficient demand.
- **Deflationary gap**: It is the gap showing deficient of current aggregate demand over 'aggregate supply at the level of full employment'. It is called deflationary because it leads to deflation (continuous fall in prices).
- **Monetary policy**: It is the policy of the central bank of a country to control money supply and availability of credit in the economy.
- Quantitative Instruments or General Tools of Monetary Policy: These are the instruments of monetary policy that affect overall supply of money/credit in the economy.
- Qualitative Instruments or Selective Tools of Monetary Policy: These instruments are used to regulate the direction of credit.
- **Bank rate**: It is the rate of interest at which central bank lends to commercial banks without any collateral (security for purpose of loan).



- **Repo rate**: It is the rate at which commercial bank borrow money from the central bank for short period by selling their financial securities to the central bank.
- **Reverse repo rate:** It is the rate at which the central bank (RBI) borrows moneyfrom commercial bank.
- Open Market Operation: It consists of buying and selling of government securities and bonds in the open market by central bank.
- Cash Reserve Ratio: It refers to the minimum percentage of a bank's total deposits, which it is required to keep with the central bank.
- **Statutory Liquidity Ratio**: It refers to minimum percentage of net total demand and time liabilities, which commercial banks are required to maintain with themselves.
- Marginal requirement: Business and traders get credit from commercial bank against the security of their goods. Bank never gives credit equal to the full value of the security. It always pays less value than the security. So, the difference between the value of security and value of loan is called marginal requirement.
- Moral suasion: It implies persuasion, request, informal suggestion, advice and appeal by the central banks to commercial banks to cooperate with general monetary policy of the central bank
- Selective credit control: In this method the central bank can give directions to the commercial banks not to give credit for certain purposes or to give more credit for particular purposes or to the priority sectors.
- **Fiscal policy**: The expenditure and revenue policy taken by the general government to accomplish the desired goals is known as fiscal policy.
- Full employment equilibrium: It refers to the situation where aggregate demand is equal to aggregate supply, and all those who are able to work and willing to work (at the existing wage rate) are getting work.
- **Voluntary unemployment**: It refers to the situation when a person is unemployed because he is not willing to work at the existing wage rate, even when work is available.
- **Involuntary unemployment**: It refers to a situation in which all able and willing persons to work at existing wage-rate do not find work.

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