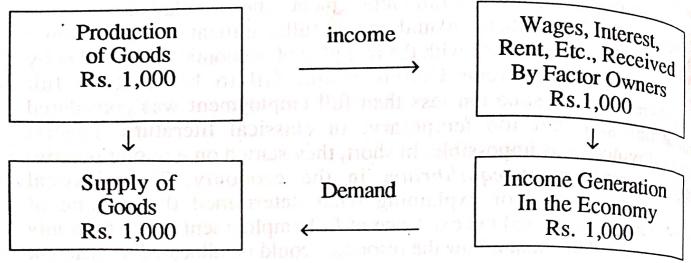
J.B. Say's Law of Markets good at memberoni bus agrives

The classical economists had immense faith in the law of Markets enunciated by J.B.Say, the French economist. The law states, Supply creates its own demand. According to Say's law of markets, general overproduction and unemployment are logically impossible and cannot exist in an economy under normal conditions, as the supply always creates its own demand.

Supply creates its own demand is explained in the following manner and supply of goods, incomes are created Supply creates its own aemana is supply of goods, incomes are created and In the process of production and supply of goods, incomes are created and goods produced and In the process of production and supply and demand goods produced and distributed to consumers to enable them to demand goods produced. The distributed to consumers to enable them source of demand for produced goods comes from incomes earned by This can be illustrated as follows: factors of production. This can be illustrated as follows:



According to Say's Law of Markets, the production of goods worth Rs.1,000 creates income of Rs.1,000 which will become the source of demand for the supply of goods worth Rs.1,000. Thus any quantity produced and sold in the market will be demanded and lifted, as for every production there is a generation of income to an equal amount to demand the extra goods. In this sense there can be no overproduction or shortage of demand. If this be the case, all unemployed factors will be automatically employed as their production would create income necessary to lift the goods from the market. Ultimately all the factor units will be fully utilized, i.e., a condition of full-employment will be reached.

Assumptions of the Law

- The law assumes that there is no government or artificial intervention in economic activities hindering the automatic and self-adjusting mechanism of the economy;
- In a free enterprise economy working on price-mechanism, there is ultimited scope for the growing population and an increase of capital;
- The size of the market is capable of expansion and the (iii) expanding markets permit new firms and workers who make their way into the productive processes without displacing the existing labour force; and
- All savings are automatically invested and the equality between (iv) savings and investment is brought about by interest flexibility.

Implications of Say's Law

- Say's law of markets is a denial of general over-production and unemployment in the economy;
- So long as there exist unemployed resources in the economy, it is profitable to employ them to the point of full employment, (ii)

subject to the limitation that the contributors of resources are willing to accept rewards on a par with their physical productivity;

- (iii) Since there is an automatic price mechanism working in the economy there is no need for government intervention in the functioning of the economy;
- (iv) Interest flexibility brings about equality between savings and investment; and
- (v) Since whatever is produced can be sold out, money has no role to perform in the economy except as the medium of exchange to obviate the difficulties of barter.

Classical Theory of Employment

The classical theory assumes the existence of full employment with. out inflation. Given wage-price flexibility, there are automatic forces in the economic system that tend to maintain full employment, and produce output at that level. Thus full employment is regarded as a normal situation and any deviation from this level is something abnormal which automatically tends toward full employment. The classical theory of output and employment is based on the following assumptions:

1. There is the existence of full employment without inflation.

2. There is a closed laissez faire capitalist economy without foreign trade.

3. There is perfect competition in labour and product markets.

4. Labour is homogenous.

5. Total output of the economy is divided between consumption and investment expenditures.

6. The quantity of money is given.

7. Wages and prices are flexible.

- 8. Money wages and real wages are directly related and propor tional.
- 9. Capital stock and technological knowledge are given in the short run.

· Say's Law of Markets. Say's Law of Markets is the core of the classical theory of employment. Jean Baptiste Say, an early 19th century French Economist, enunciated the proposition that "supply creates its own demand." This is known as Say's Law. In Say's words, "It is production which creates markets for goods. A product is no sooner created than it, from that instant, affords a market for other products to the full extent of its own value. Nothing is more favourable to the demand of one product, than the supply of another." In its original form, the law is applicable to a barter economy where goods are ultimately sold for goods. Every good brought to the market is a demand for some other goods. According to Say, work being unpleasant no person will work to make a product unless he wants to exchange it for some other product which he desires. Therefore, the very act of supplying goods implies a demand for them. In such a situation there cannot be general overproduction because supply of goods will not exceed demand as a whole. But a particular good may be overproduced because the producer incorrectly estimates the quantity of the product which others want. But this is a temporary phenomenon for the excess production of particular product can be corrected in time by reducing its production. James Mill supported Say's Law in these words, "Consumption is co extensive with production and production is the cause, and the sole cause of demand. It never furnishes supply without furnishing demand, both at the same time and both to an equal extent . . . whatever the amount of annual produce, it can never exceed the amount of annual demand." Thus supply creates its own demand and there cannot be general overproduct and hence general unemployment.

The existence of money does not alter the basic law. "Say's law, in a very broad way, is," as Professor Hansen has said, "a description of a free-exchange economy. So conceived, it illuminates the truth that the main source of demand is the flow of factor income generated from the process of production itself." When producers obtain the various inputs (land, labour and capital) to be used in the production process, they generate the necessary income accruing to the factor.

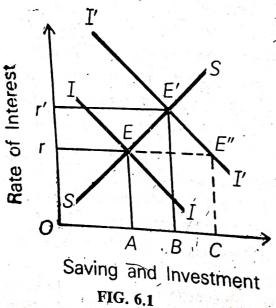
¹J.B. Say, Political Ecouomy, (4th ed.), Vol. 7, pp. 144, 167, 170.

²A.H. Hansen, A Guide to Keynes, p. 3.

owners in the form of rent, wages and interest. This, in turn, caused owners in the form of rent, wages and interest. This, in turn, caused owners in the form of rent, wages and interest. This, in turn, caused owners in the form of rent, wages and interest. This, in turn, caused when the goods produced. In this way, supply creates its own demand for the goods produced on the assumption that all its own demand. This reasoning is based on the assumption that all income demand by the factor-owners is spent in buying commodities which they help to produce.

they help to produce. What is not spent is saved which is automatically invested. Thus saving must equal investment. If there is any divergence between the two, the equality is maintained through the mechanism of the rate of interest. To the classicists, interest is a reward for saving. The higher the rate of interest, the higher the saving, and vice versa. On the contrary, the lower the rate of interest, the higher the demand for investment funds, and vice versa. If at any given period, investment exceeds saving, the rate of interest will rise. Saving will increase and investment will decline till the two are equal at the full employment level. This is because saving is regarded as an increasing function of the interest rate and investment as a decreasing function of the rate of interest.

The mechanism of the equality between saving and investment is shown in Figure 6.1 where SS is the saving curve and II is the invest-



ment curve. The two curves intersect at E where the rate of interest is Or and both saving and investment are equal to OA. If there is an increase in investment, the investment curve shifts to the right as I'I' curve and at the interest rate Or investment OC is greater than OA saving. According to the classical economists, the saving curve SS remains at its original level when there is any increase in investment.

saving and investment, the rate of interest will rise. This is shown to intersects the investment curve I'I' at E'. Consequently, both saving

The validity of Say's Law in a money economy also depends on the classical quantity theory of money which states that price level is a M, N, P, and T are the supply of money. Algebraically, $MV \equiv PT$ where level and the volume of transactions (or total output). The equation

tells that the total money supply MV equals the total value of output PT in the economy. Assuming V (the velocity of money) and T (the total output) to be constant, a change in the supply of money M causes a proportional change in the price level P. This is based on the assumption that money acts as a medium of exchange.

The relation between quantity of money, total output and price evel is depicted in Figure 6.2(A) where the price level is taken on the horizontal axis and the total output on the vertical axis. MV is the money supply curve which is a rectangular hyperbola. This is

because the equation MV = PT holds on all points of this curve. Given the output level OQ, there would be only one price level OP consistent with the quantity of money as shown by point M on the MV curve. If the quantity of money increases, the MV curve will shift to the right as M_1V curve. As a result, the price level would rise from OP to OP_1 , given the same level of output OQ. This rise in the price level is exactly proportional to the rise in the quantity of money, i.e., $PP_1 = mm_1$.

Having determined the price level with the help of the total quantity of money MV and the total output OQ, it is possible to determine the money wage consistent with a given real wage. This is explained in Figure 6.2(B),

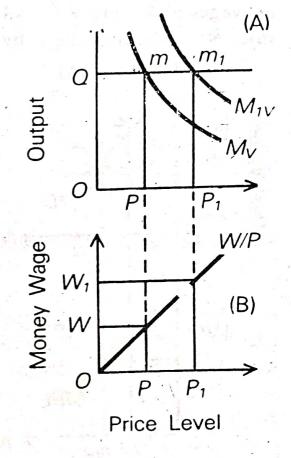


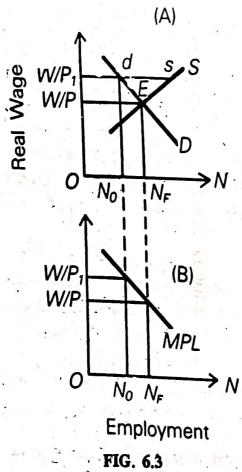
FIG. 6.2

where W/P is the real wage line or wage-price line. When the price level is OP, the money wage is OW. When the price level rises to OP_1 the money wage also rises to OW_1 . The wage-price combination $OW_1 = OP_1$ is consistent with the full employment real wage level W/P of Figure 6.3(A).

Pigou's Version. The classical theory of employment received its final version at the hands of Pigou who formulated Say's Law in terms of labour market. According to Pigou, under free competition the tendency of the economic system is to automatically provide full employment in the labour market. Unemployment results from rigidity in the wage structure and interferences in the working of the free market economy. When the state intervenes by recognising trade unions, passing minimum wage laws, etc., and labour adopts monopolistic

behaviour, wages are pushed up and unemployment ensues. If all government interferences are removed and forces of competition are allowed to work freely, the manipulation of wage rates will lead to full employment. As pointed out by Pigou, "With perfectly free competition... there will always be at work a strong tendency for wage rates to be so related to demand that everybody is employed." The Pigovian equation $N = \frac{qY}{W}$ explains the entire proposition. In this equation N is

the number of workers employed, q is the fraction of income earned as wages and salaries, Y is the national income and W is money wage rate. N can be increased by a reduction in W. Thus the key to full



employment is a reduction in money wage. This is explained in the adjoining Figure 6.3. In panel (A), S is the supply curve of labour and D is the demand curve for labour. The intersection of the two curves at E shows the point of full employment Nf and the real wage W/P at which full employment is secured. If the real wage is maintained at a higher level W/P_1 , supply exceeds the demand for labour by sd. NoNf labour is unemployed. It is only when the wage is reduced to W/P that unemployment disappears and the level of full employment is attained. This is shown in panel (B), where MPL is the marginal product labour curve which slopes downward as more labour is employed. Since

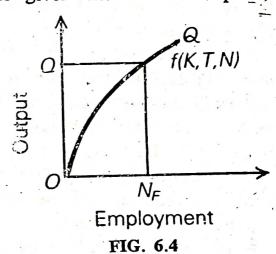
every worker is paid wages equal to his marginal product, therefore the full employment level N_f is reached when the wage rate falls from W/P_1 to W/P.

In the classical model of employment, changes in money wages and real wages are directly related and are proportional. When there is a cut in the money wage, the real wage is also reduced to the same extent which reduces unemployment and ultimately brings full employment in the economy. This relationship is based on the assumption that prices are proportional to the quantity of money. It is argued that in a competitive economy a reduction in the money wage reduces the

cost of production and prices of products thereby raising their demand. In order to meet the increased demand for the products, more workers are employed to produce them.

As employment increases, total output also increases till full employment is reached. But when the economy is at the full employment level, total output becomes stable. Thus given the stock of capital,

technological knowledge and resources, a precise relation exists between total output and the amount of employment. Total output is an increasing function of the number of workers. This is shown in Figure 6.4 where Q=f(K,T,N), that is, total output Q is a function of 'f' of the capital stock K, of technological knowledge T, and the number of workers, N. This production function shows that in the



short run the total output is an increasing function of the number of workers given the capital stock and technological knowledge. In the Figure, the total output OQ, corresponds to the full employment level N_f (of Figure 6.3).

The classicists believed that under normal competitive conditions full employment will be maintained without inflation. Even competition among employers to hire more workers will not bid wages above the full employment level, and there will be no possibility of cost inflation in the economy. Further, due to the operation of Say's law, the full employment level of output will create demand equal to that level. It is the increase in aggregate demand which causes inflation. But the mechanism of the rate of interest prevents aggregate demand to increase more than the total output. Again, inflation is caused by the increase in the quantity of money by more than what can be absorbed by the expanding output. But this is also not possible because an increase in the quantity of money increases only the absolute price level and not relative prices. Hence there is full employment without inflation in the classical system.

Keynes's Criticism of Classical Theory

Keynes vehemently criticised the classical theory of employment for its unrealistic assumptions. He wrote in his General Theory that "the characteristics of the special case assumed by the classical theory happen not to be those of the economic society in which we actually live, with the result that its teaching is misleading and disastrous if we try to apply it to the facts of experience... It represents the way in which we should like our economy to behave. But to assume that it actually does so is to assume difficulties away." Keynes attacked the classical theory on the following counts.

(1) Keynes rejected the fundamental classical assumption of full employment equilibrium in the economy. He considered it as unrealistic. He regarded full employment as a special situation. The general situation in a capitalist economy is one of underemployment. This is because the capitalist society does not function according to Say's law, and supply always exceeds its demand. We find millions of workers are prepared to work at the current wage rate, and even below it, but they do not find work. Thus the existence of involuntary unemployment in capitalist economics (entirely ruled out by the classicists) proves that underemployment equilibrium is a normal situation and full employment equilibrium is abnormal and accidental.

(2) Keynes refuted Say's Law of markets that supply always created its own demand. He maintained that all income earned by the factor-owners would not be spent in buying products which they helped to produce. A part of the earned income is saved and is not automatically invested because saving and investment are distinct functions. So when all earned income is not spent on consumption goods and a portion of it is saved, there results a deficiency of aggregate demand. This leads to general overproduction because all that is produced is not sold. This, in turn, leads to general unemployment. Thus Keynes invalidated Say's Law by invoking the principle that marginal propensity to consume is less than one.

(3) Keynes did not agree with the classical view that the laissez-faire policy was essential for an automatic and self-adjusting process of full employment equilibrium. He pointed out that the capitalist system was not automatic and self-adjusting because of the non-egalitarian structure of its society. There are two principal classes, the rich and the poor. The rich possess much wealth but they do not spend the whole of it on consumption. The poor lack money to purchase consumption goods. Thus there is general deficiency of aggregate demand in relation to aggregate supply which leads to overproduction and unemployment in the economy. This, in fact, led to the Great Depression. Had the capitalist system been automatic and self-adjusting this would not have occurred. Keynes, therefore, advocated state intervention for adjusting supply and demand within the economy through fiscal and monetary measures.

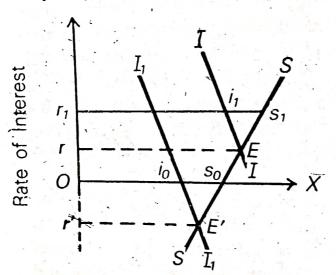
(4) The classicists believed that saving and investment were equal at the full employment level and in case of any divergence the equality was brought about by the mechanism of rate of interest. Keynes held that the level of saving depended upon the level of income and not on the rate of interest. Similarly investment is determined not only by rate of interest but by the marginal efficiency of capital. A low rate of interest cannot increase investment if business expectations are low. If saving exceeds investment, it means people are spending less on consumption. As a result, demand declines. There is overproduction and fall in investment, income, employment and output. It will lead to reduction in saving and ultimately the equality between saving and investment will be attained at a lower level of income. Thus it is variations in income rather than in interest rate that bring the equality between saving and investment.

(5) The classical economists believed that money was demanded for transactions and precautionary purposes. They did not recognise the speculative demand for money because money held for speculative

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Macroeconomic balances. But Keynes did not agree purposes related to idle balances. But Keynes did not agree demands purposes related to idle balance of speculative agree demand for this view. He emphasised the importance of interest from assets in the contract of the contra this view. He emphasised the that the earning of interest from assets meaning of interest from assets meaning money. He pointed out that the earning of interest from assets meaning money. He pointed out that the earning of interest from assets meaning of interest from a second meaning of interest from a second meaning of interest from a second meaning meaning meaning meaning meaning meaning meaning meaning mean money. He pointed out that the money purposes may be very small at a for transactions and precautionary purposes may be very small at a for transactions. But the speculative demand for money would be transactions. for transactions and precautions are speculative demand for money would at a low rate of interest. Thus the rate of interest low rate of interest. But the speculative do infinitely large at a low rate of interest. Thus the rate of interest will infinitely large at a low rate of interest. Thus the rate of interest will infinitely large at a low rate of interest. Thus the rate of interest will be infinitely large at a low rate of interest. Thus the rate of interest will be infinitely large at a low rate of interest. Thus the rate of interest will be infinitely large at a low rate of interest. infinitely large at a low later level, and the speculative demand not fall below a certain minimum level, and the speculative demand not fall below a certain manner of the classicists failed to analyse. This is Keynes 'liquidity trap' which the classicists failed to analyse.

quidity trap which the quidity trap which the rate of interest was possible for saving As a coronary, helping to exceed investment while the rate of interest was positive. The liquidity prevents the rate of interest from falling below certain minimum level. This may, in turn, prevent the equality of saving and invest. ment. This is illustrated in Figure 6.5 where SS is the saving curve and II the investment curve. If the liquidity trap is at Or_1 rate of interest, it would prevent the interest rate from falling to Or and the equality between saving and investment will not be brought about



Saving and Investment FIG. 6'5

at point E. At the liquidity trap -level Or_1 saving exceeds investment by $i_1 s_1$. So the economy will not settle at the full employment level (E) where saving and investment are equal equilibrium underemployment exceeds investsaving where ment.

Keynes further pointed out that even if the rate of interest were to fall to zero, there would still be an excess of saving over investment. This is also explained in Figure 6.5 where the curve II

has shifted to the extreme left as I_1I_1 showing fall in investment. Such a possibility exists under a depression. At zero interest rate saving exceeds investment by i_0s_0 . In this situation, the classical saving and investment curves intersect at point E' when the rate of interest Or' is negative. This is an absurd situation.

(6) The classical economists regarded money as neutral. Therefore they excluded the theory of output, employment and interest rate from the monetary theory. According to them, the level of output and employment, and the equilibrium rate of interest were determined by

real forces. Keynes criticised the classical view that the monetary theory was separate from the value theory. He integrated monetary theory with value theory, and brought the theory of interest in the domain of monetary theory (by regarding the interest rate as a monetary phenomenon). He integrated the value theory and the monetary theory through the theory of output. This he did by forging a link between the quantity of money and the price level via the rate of interest. For instance, when the quantity of money increases, the rate of interest falls, investment increases, income and output increase, demand increases, factor costs and wages increase, relative prices increase, and ultimately the general price level rises. Thus Keynes integrated monetary and real sectors of the economy.

(7) Keynes refuted the Pigovian formulation that a cut in money wage could achieve full employment in the economy. The greatest fallacy in Pigou's analysis was that he extended the argument to the economy which was applicable to a particular industry. Reduction in wage rate can increase employment in an industry by reducing costs and increasing demand. But the adoption of such a policy for the economy leads to a reduction in employment. When there is a general wage-cut, the income of the workers is reduced. As a result, aggregate demand falls leading to a decline in employment.

From the practical view point also Keynes never favoured a wagecut policy. In modern times, workers have formed strong trade unions which resist a cut in money wage. They would resort to strikes. The consequent unrest in the economy would bring a decline in output and income. Moreover, social justice demands that wages should not

be cut if profits are left untouched.

Keynes also did not accept the classical view that there was a direct proportionate relationship between money wages and real wages. According to him, there is an inverse relation between the two. When money wages fall, real wages rise and vice versa. Therefore, a reduction in the money wage would not reduce the real wage, as the classicists believed, rather it would increase it. This is because the money wage-cut will reduce cost of production and prices by more than the former. Thus the classical view that fall in the real wages will increase employment breaks down. Keynes, however, believed that employment could be increased more easily through monetary and fiscal measures rather than by reduction in money wage. Moreover, institutional resistances to wage and price reductions are so strong that it is not possible to implement such a policy administratively.

(8) Keynes did not agree with Pigou that "frictional maladjustments alone account for failure to utilise fully our productive power." The

capitalist system is such that left to itself it is incapable of using productive power fully. Therefore, state intervention is necessary. The state may directly invest to raise the level of economic activity or to supplement private investment. It may pass legislation recognising trade unions, fixing minimum wages and providing relief to workers through social security measures. "Therefore", as observed by Dillard, "it is bad politics even if it should be considered good economics to object to labour unions and to liberal labour legislation." So Keynes favoured state action to utilise fully the resources of the economy for attaining full employment.

(9) The classicists believed in the long-run full employment equilibrium through a self-adjusting process. Keynes had no patience to wait for the long period for he believed that "In the long-run we are all dead". As pointed by Schumpeter, "His philosophy of life was essentially a short-term philosophy." His analysis is confined to short-run phenomena. Unlike the classicists, he assumes tastes, habits, techniques of production, supply of labour, etc. to be constant during the short period and so neglects long-run influences on demand. Assuming consumption demand to be constant, he lays emphasis on increasing investment to remove unemployment. But the equilibrium level so reached is one of underemployment rather than of full employment.

Thus the classical theory of employment is unrealistic and is incapable of solving the present day economic problems of the capitalist world.

The Principle of Effective Demand: Aggregate Demand and Aggregate Supply*

The logical starting point of Keynes's theory of employment is the principle of effective demand. In a capitalist economy the level o employment depends on effective demand. Thus unemployment re sults from a deficiency of effective demand and the level of employmen can be raised by increasing the level of effective demand.

Meaning

In ordinary parlance demand means desire. It becomes effective when income is spent in buying consumption goods and investmen goods. Keynes used the term 'effective demand' to denote the tota demand for goods and services at various levels of employment. Diffe rent levels of employment represent different levels of aggregati demand. But there can be a level of employment where aggregate de niand equals aggregate supply. This is the point of effective demand In Keynes's words, "The value of D (Aggregate Demand) at the poin of Aggregate Demand function, where it is intersected by the Aggre gate Supply function, will be called the effective demand." Thus according to Keynes, the level of employment is determined by effec tive demand which, in turn, is determined by aggregate demand price and aggregate supply price.

Aggregate Demand Price

"The aggregate demand price for the output of any given amount of employment is the total sum of money or proceeds, which is expected from the sale of the output produced when that amount of labou is employed."2 Thus the aggregate demand price is the amount cl

^{*}We have confined our analysis to Keynes's method of deriving aggregate demand and aggregate supply functions. For an alternative analysis refer, to E.

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money which the entrepreneurs expect to get by selling the output pro money which the entrepression of men employed. In other words, it refers to duced by the number of the sale of output produced at a particular the expected revenue from the sale of output produced at a particular the expected revenue Different aggregate demand prices relate to the expected revenue Tomberont aggregate demand prices relate to diffe. rent levels of employment in the economy.

A statement showing the various aggregate demand prices at diffe. A statement shows at different levels of employment is called the aggregate demand price sche. dule or aggregate demand function. "The aggregate demand function," according to Keynes, "relates any given level of employment to the expected proceeds from that level of employment." Table I shows the aggregate demand schedule.

The Table reveals that with the increase in the level of employment proceeds expected (ADP) rise and at lower levels of employment dec. ine. When 45 lakh people are provided employment the aggregate demand price is Rs 280 crores and when 25 lakh people are provided jobs, it is Rs 240 crores. According to Keynes, the aggregate demand function is an increasing function of the level of employment and is expressed as D=F(N), where D is the proceeds which entrepreneurs expect from the employment of N men.

TABLE I: AGGREGATE DEMAND SCHEDULE

Level of Employment (N) (in lakhs)	Aggregate Demand Price (D) (Rs crores)		
	230		
neighbor 20 a faire all	240		
$\frac{25}{30}$	250		
real and the first service as the	260		
and the statement 40 to the	270		
who see it small 45 or in The same to the	280.		
50	290		

The aggregate demand curve can be drawn on the basis of the above schedule. It slopes upward from left to right because as the level of employment increase. employment increases aggregate demand price also rises, shown as AD curve in Figure 7.1.

Aggregate Supply Price

When an entrepreneur gives employment to certain amount of hour, it requires certain labour, it requires certain quantities of cooperant factors like land,

capital, raw material, etc. which will be paid remuneration along with labour. Thus each level of employment involves certain money costs of production including normal profits which, the entrepreneur must cover. "At any given level of employment of labour aggregate supply price is the total amount of money which all the entrepreneurs in the economy, taken together, must expect to receive from the sale of the output produced by that given number of men, if it is to be just worth employing them." If brief, the aggregate supply price refers to the proceeds necessary from the sale of output at a particular level of employment. Thus each level of employment in the economy is related to a particular aggregate supply price and there are different aggregate supply prices for different levels of employment.

A statement showing the various aggregate supply prices at different levels of employment is called the aggregate supply price schedule or aggregate supply function. In the words of Prof. Dillard, "The aggregate supply function is a schedule of the minimum amounts of proceeds required to induce varying quantities of employment." Table II shows the aggregate supply schedule.

TABLE II: AGGREGATE SUPPLY SCHEDULE

Level of Employment (N) (in lakhs)	Aggregate Supply Price (Z) (Rs crores)		
20	215		
25	230		
30	245		
35	260		
40	275		
40	290		
40	305		

The above table reveals that the aggregate supply price rises with the increase in the level of employment. If the entrepreneurs are to provide employment to 20 lakh workers, they must receive Rs 215 crores from the sale of the output produced by them. It is only when they expect to receive the minimum amounts of proceeds (Rs 230 crores, Rs 245 crores and Rs 260 crores) that they will provide employment to more workers (25 lakhs, 30 lakhs and 35 lakhs respectively). But when the economy reaches the level of full employment (at 40 lakh workers) the aggregate supply price (Rs 275,290 and 305 crores) continues to increase but there is no further increase in

employment. According to Keynes, the aggregate supply function of the level of employment and is expressed to expressed the output of the outp employment. According to Royal employment and is expressed an increasing function of the level of employment and is expressed an increasing function of the level of employment and is expressed as a supply price of the output from employment as employment an increasing function of the level an increasing function of the supply price of the output from employ. $Z = \phi N$, where Z is aggregate supply price of the output from employ.

The aggregate supply curve can be drawn on the basis of the sche The aggregate supply curve dule. It slopes upward from left to right because as the necessary dule. It slopes upward from the level of employment also rises. But when the economy reaches the level of full employment, the aggregate supply curve becomes vertical. Even with the increase in the aggregate supply curve occomes to supply curve occomes to provide more employment as the economy has attained the level of full employment.

Determination of Effective Demand

We have studied the two determinants of effective demand separate. ly and now are in a position to analyse the process of determining the level of employment in the economy. The level of employment is determined at the point where the aggregate demand price equals the aggregate supply price. In other words, it is the point where what the entrepreneurs expect to receive equals what they must receive and their profits are maximised. This point is called the effective demand and here the entrepreneurs earn normal profits. So long as the aggregate demand price is higher than the aggregate supply price, the prospects of getting additional profits are greater when more workers are provided employment. The proceeds expected (revenue) rise more than the proceeds necessary (costs). This process will continue till the aggregate demand price equals the aggregate supply price and the point of effective demand is reached. This point determines the level of employment and output in the economy. The point of effective demand is, however, not necessarily one of full employment but of underemployment equilibrium. If the entrepreneurs try to provide more employment after this point, the aggregate supply price exceeds the aggregate demand price indicating that the total costs are higher than the total workers beyond the naint sees. So the entrepreneurs will not employ workers beyond the point of effective demand till the aggregate demand price rises to meet the aggregate supply price at the new equilidemand price is raised still a new of full employment. If the aggregate demand price is raised still further, it will lead to inflation for no increase in employment and there, it will lead to inflation for full increase in employment and output is possible beyond the level of full employment. The following employment. The following table explains the determination of the point of effective demand.

Table III shows that so long as the aggregate demand price is higher than the aggregate supply price, it is profitable for the entrepreneurs to employ more workers, when the entrepreneurs expect to receive Rs 230 crores, Rs 240 crores and Rs 250 crores than the proceeds necessary amounting to Rs 215 crores, Rs 230 crores and Rs 245 crores, they will provide increasing employment to 20 lakh, 25 lakh and 30 lakh workers respectively. But when the proceeds necessary and proceeds expected equal Rs 260 crores the level of employment rises to 35 lakhs. This is the point of effective demand. If we assume the level of full employment to be 40 lakh workers in the economy, it will necessitate the drawing up of a new aggregate demand price schedule as shown in Table III last column. As a result, the new point of effective demand is 40 lakh workers because both the aggregate demand price and the aggregate supply price equal Rs 275 crores. Beyond this point there is no change in the level of employment which is steady at 40 lakh workers.

TABLE III: SCHEDULE OF AGGREGATE DEMAND AND AGGREGATE
SUPPLY PRICES

Level of Employment (N) (in lakhs)	Employment (N)	Aggregate Supply Price (Z) (Rs crores)	Aggregate Demand Price (D) (Rs Crores)	
	(ICS CLOIDS)	Old	New-	
	20	215	230	235
	20	230	240	245
	25	245	250	255
	30		260	265
	35	260 275	270	275
	40		280	285
100	40 40	290 305	290	295

Figure 7.1 illustrates the determination of effective demand where AD is the aggregate demand function and AS the aggregate supply function. The horizontal axis measures the level of employment in the economy and the vertical axis, the proceeds expected (revenue) and the proceeds necessary (costs) The two curves AD and AS intersect each other at point E. This is effective demand where ON workers are employed. At this point the entrepreneurs' expectations of profits are maximised. At any point other than this, the entrepreneurs will either incur losses or earn subnormal profits. At ON' level of employeither incur losses or earn subnormal profits. At ON' level of employeither incur losses expected (revenue) are more than the proceeds ment the proceeds expected (revenue) are more than it is profitable necessary (costs), i.e., RN' > CN'. This indicates that it is profitable

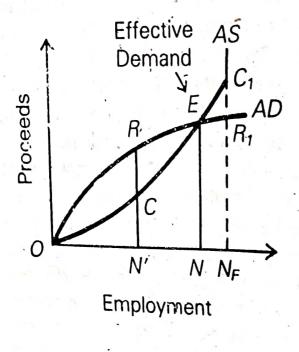
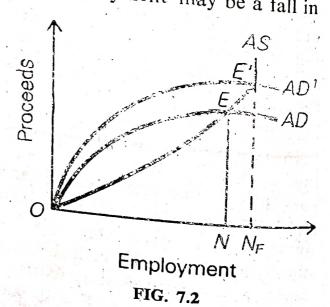


FIG. 7.1

for the entrepreneurs to provide increasing employment to workers till ON level is reached where the proceeds expected and where necessary sary equal at point E. It would not be, however, profitable for entrepreneurs to increase employment beyond this to N level because the proceeds neces. sary (costs) exceed the proceeds expected (revenue), i.e., $C_1 N_{f} >$ R_1N_f and they incur losses. Thus E, the point of effective demand, determines the actual level of the economy in which is of underemployment equilibrium.

Of the two determinants of effective demand, Keynes regards the aggregate supply function to be given because it depends on the technical conditions of production, the availability of raw materials, machines, etc. which do not change in the short run. It is, therefore, the aggregate demand function which plays a vital role in determining the level of employment in the economy. According to Keynes, the aggregate demand function depends on the consumption function and investment function. The cause of unemployment may be a fall in

investment expenditure, or both. The level employment can be raised by increasing either consumption expenditure or investment expenditure, or both. Thus, it is the aggregate demand function which is the "effective" element in the principle of effective demand. Prof. Dillard regards this as the core of the principle of effective demand.



It follows that to raise the economy to the level of full employment requires the raising of the point of effective demand by increasing the aggregate demand. This is illustrated in Figure 7.2, where E is the point of effective demand which determines ON level of employment. If ONs is the level of full employment for the economy, it requires

the raising of the point of effective demand. This is possible by raising the aggregate demand curve to AD' (last column of Table III) where it intersects aggregate supply curve AS at E'. This is the new point of effective demand which provides an optimum level of employment ON_f to the economy. If the aggregate demand function is raised beyond this point the economy will experience inflation because all the existing resources are fully employed and their supply cannot be increased during the short run, as is apparent from the vertical portion of the AS curve in the Figure 7.2.