Chapter 7 The Principle of Effective Demand: Aggregate Demand and Aggregate Supply\* The logical starting point of Keynes's theory of employment is the The logical depends on 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. In ordinary parlance demand means desire. It becomes effective Meaning when income is spent in buying consumption goods and investmen when the words and services at wash demand' to denote the tota demand for goods and services at various levels of employment. Diffe demand to demployment represent different levels of aggregations of the state of aggregation of the state of the s demand. But there can be a level of employment where aggregate de mand 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 effect 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 co \*We have confined our analysis to Keynes's method of deriving aggregate demand and aggregate supply functions. For an alternative analysis refer, to E. Shapiro, op. cit., Ch. 13. D. Dillard, op. cit. \*Op. cit.

Table III shows that so long as the aggregate demand price is higher Table 111
Table 112
Table than the age more workers, when the entrepreneurs expect to receive to employ employ to employ to employ to employ employeemploy employeemploy employeemploy employeemploy employeemploy employeemploy employeemploy employeemploy employee Rs 230 crores amounting to Rs 215 crores, Rs 230 crores and Rs 245 necessary will provide increasing employment to 20 1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 necessary will provide increasing employment to 20 lakh, 25 lakh crores, they workers respectively. But when the proceeds necessary and proceeds expected equal Rs 260 crores the level of employment and process to 35 lakhs. This is the point of effective demand. If we asrises to some the level of full employment to be 40 lakh workers in the ecosume the level sum of the level sum of a new aggregate demand nomy, it shows in Table III last column. As a result, the new price schedule as shown in Table III last column. As a result, the new price schedule price and is 40 lakh workers because both the aggrepoint of electronic and the aggregate supply price equal Rs 275 crores. gate demand 1 gate 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.

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TABLE III: SCHEDULE OF AGGREGATE DEMAND AND AGGREGATE SUPPLY PRICES

Level of Employment (N) (in lakhs)	Aggregate Supply Price (Z) (Rs crores)	Aggregate Demand Price (D) (Rs Crores)	
		Old	New
20	215	230	235
20	230	240	245
25	245	250	255
30	260	260	265
35	275	270	- 275
40	290	280	285
40	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 interact 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 or earn subnormal profits. At ON' level of employeither incur losses or earn subnormal profits. At ON' level of employeither incur losses or earn subnormal profits. At ON' level of employeither incur losses or earn subnormal profits. At ON' level of employeither incur losses or earn subnormal profits. At ON' level of employeither incur losses or earn subnormal profits. At ON' level of employeither incur losses or earn subnormal profits. At ON' level of employeither incur losses or earn subnormal profits. At ON' level of employeither incur losses or earn subnormal profits. At ON' level of employeither incur losses or earn subnormal profits. At ON' level of employeither incur losses or earn subnormal profits.

employment. According to Keynes, the aggregate supply function is employment. According to Keynes, the aggregation and is expressed as an increasing function of the level of employment and is expressed as all increasing function of the level of employing  $Z = \phi N$ , where Z is aggregate supply price of the output from employ. The aggregate supply curve can be drawn on the basis of the sche.

dule. It slopes upward from left to right because as the necessary expected proceeds increase, the level of employment also rises. But when the economy reaches the level of full employment, the aggregate when the economy reaches the level of full employees in the aggregate supply curve becomes vertical. Even with the increase in the aggregate supply curve becomes vertical. Even with the supply price, it is not possible to provide more employment as the economy has attained the level of full employment.

We have studied the two determinants of effective demand separate. Determination of Effective Demand 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 is ste 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 revenue and there are losses. 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 equilibrium point which may be one of full employment. If the aggregate demand price is raised still further, it will lead to inflation for no increase in employment and output is possible beyond the level of full employment. The following table explains the determination of the point of effective demand.

J.M. Keynes, op. cit., p. 25.

Table III than the a emplo: Rs 230 cr necessary crores, th and 30 and prov rises th nomy, price s point 4 gate d Beyon

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

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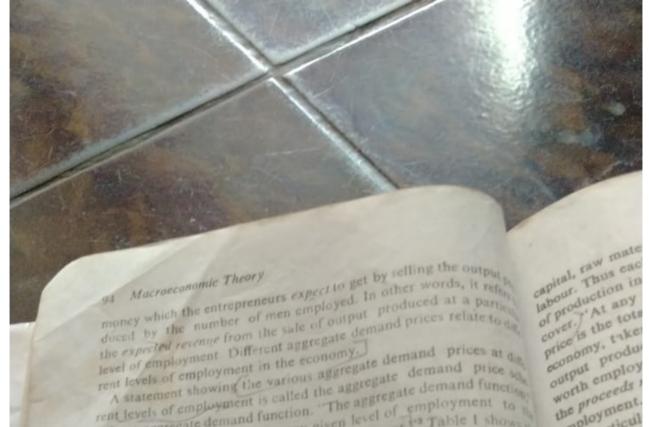
A statement showing the various aggregate supply prices at diffe-A statement of employment is called the aggregate supply prices at different levels of employment in the words of Perfect schedule rent levels of supply function. In the words of Prof. Dillard, "The or aggregate supply function is a schedule of the minimum amounts of aggregate required to induce varying quantities aggregate supply schedule of the minimum amounts of proceeds required to induce varying quantities of employment."5 proceeds the aggregate supply schedule.

TABLE II: AGGREGATE SUPPLY SCHEDULE

Level of Employment (N) (in lakhs)	Aggregate Supply Price (Z) (Rs crores)
20	215
	230
. 25 . 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

Stonier and Hague, A Text Book of Economic Theory, p. 381. 'D. Dillar 2, op. cit., p. 31.



A statement showing the various aggregate demand prices at que A statement showing the various aggregate demand price squared levels of employment is called the aggregate demand function rest levels of employment is called the aggregate demand function. The aggregate demand function.

dule or aggregate demand function. The aggregate employment to according to Keynes, "relates any given level of the Table Late to the expected proceeds from that level of employment, 102 Table 1 shows

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Table II

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

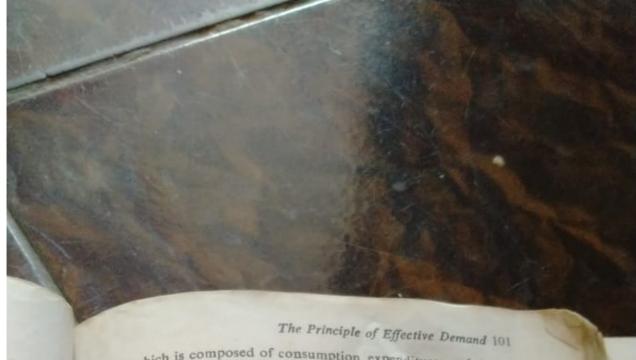
TABLE I: AGGREGATE DEMAND SCHEDULE

Level of Employment (N) (in lakhs)	Aggregate Demand Price (D) (Rs croses)	
20 25	230 240 250	
30 35 40	260 270	
45	280 290	

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 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 labour, it requires certain quantities of cooperant factors like land,



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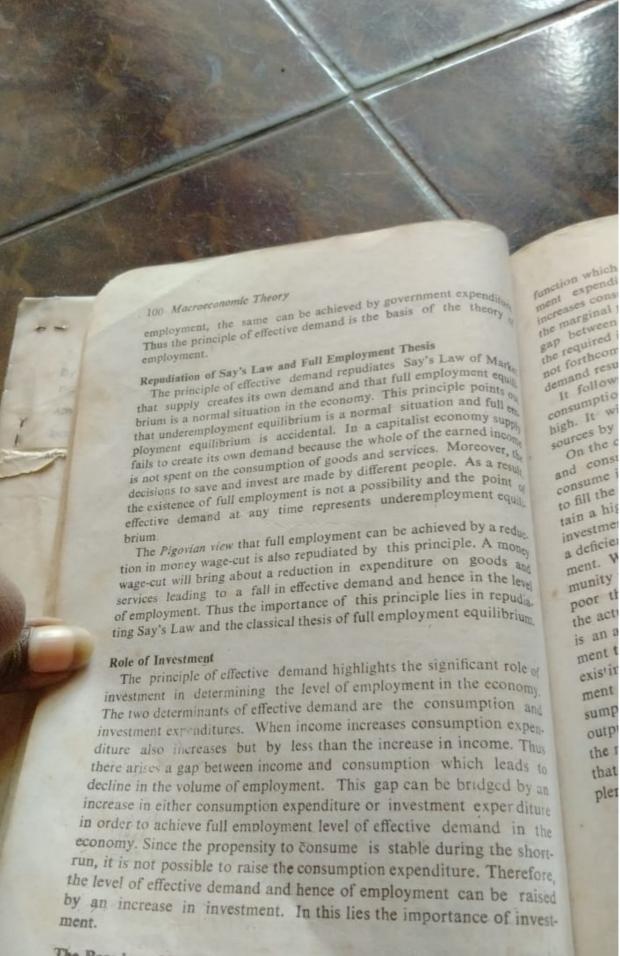
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function which is composed of consumption expenditure and investment expenditure. A fundamental principle is that when income increases consumption also increases but less than proportionately (i.e., the marginal propensity to consume is less than one). This creates a the marginal propensity to consume income which must be filled up by the required investment expenditure. If the appropriate investment is the required investment expenditure. If the appropriate investment is not forthcoming to fill this gap, it leads to a deficiency of effective demand resulting in unemployment.

demand result in a poor community, the gap between income and It follows that in a poor community, the gap between income and consumption is small because the marginal propensity to consume is high. It will, therefore, have little difficulty in employing all its rehigh. It will, the gap through small investment expenditure. Sources by filling the gap through small investment expenditure.

On the contrary, in a wealthy community the gap between income

On the consumption is very large because the marginal propensity to and consume is low. It will, therefore, require large investment expenditure consume is to fill the gap between income and consumption in order to mainto fill the gap to fincome and employment. But in a rich community tain a high level of income and employment. But in a rich community tain a night demand is not adequate to fill this gap and there emerges investment demand resulting in investment of aggregate demand resulting in widespread unemployment. When the aggregate demand falls the potential wealthy comment. Will be forced to reduce its actual output until it becomes so poor that the excess of output over consumption will be reduced to the actual amount of investment. Further, in such a community there is an accumulated stock of capital assets which weakens the inducement to invest because every new investment competes with an already existing large supply of old capital assets. This inadequacy of investment demand reacts in a cumulative manner on the demand for consumption and will, in turn, lead to a further fall in employment, output and income. Thus as Keynes said, "The richer the community, the more obvious and outrageous the defects of the economic system that lead to unemployment on a mass scale in the midst of potential plenty because of the deficiency of effective demand."7



The Paradox of Poverty in the Midst of Potential Plenty

The importance of effective demand lies in explaining the paradox of poverty in the midst of potential plenty in the modern capitalism. Effective demand is mainly determined by the aggregate demand Paris I

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of the point of effective demand. This is possible by the aggregate demand curve to AD' (last column of Table by be raising of the aggregate demand curve to AD' (last column of Table III) the aggregate supply curve AS at E'. This is the street of effective demand which provides an optimum level of street of the economy. If the aggregate demand continue the street of the economy is the street of the economy of the economy. point ON, to the economy. If the aggregate demand function beyond this point the economy will experience in the existing resources are a sized as the existing resources are a sized as the existing resources. beyond this point the economy will experience inflation Braised beyond resources are fully employed and their supply second be increased during the short run, as is apparent of the AS Current run, as is apparent of because all the short run, as is apparent from the stand portion of the AS curve in the Figure 7.2. portion of the AS curve in the Figure 7.2.

prortance of Effective Demand The principle of effective demand is the most important contribu-The principle. It is the soul of the Keynesian theory of employment. of Keynesian theory of employment.

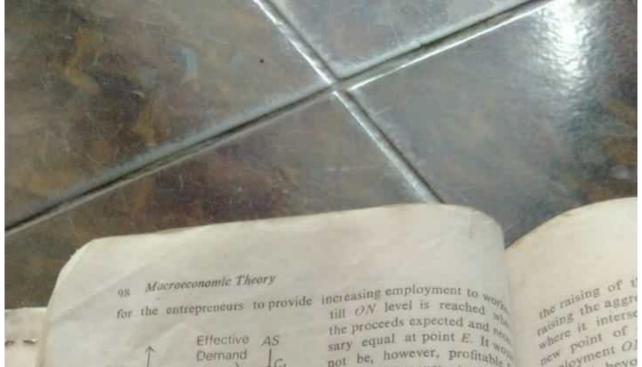
Or Klein attributes the Keynesian revolution solely to the develop-

of a theory of effective demand. peterminant of Employment. Effective demand determines the level peterminant in the economy. When effective demand increases, remployment also increases, and a decline in effective demand increases, and a decline in effective demand decreathe level of effective demand. Effective demand is caused by a sthe level of effective demand. Effective demand represents the total agenditure on the total output produced at an equilibrium level of engloyment. It indicates the value of total output which equals engloym income. National income equals national expenditure. varional expenditure consists of expenditure on consumption goods Nacestal of employment are consumption goods and the level of employment are consumption and investment. In biel Effective Demand=Value of National Output=Volume of Employment = National Income = National Expenditure = Expenditure monsumption goods + Expenditure on investment goods.

in the Keynesian analysis of effective demand consumption and metment expenditures relate to the private sector because Keynes awiders government expenditure as autonomous. But the post-Keyreiss economists include government expenditure as a component of effective demand. Thus, effective demand (D) = Private consumpin expenditure (C)+Private investment (I)+Government expendi-

we (G) on both.

We may conclude that the importance of the principle of effective demand lies in pointing out the cause and remedy of unemployment. themployment is caused by a deficiency of effective demand and it me be removed by an increase in consumption expenditure or an meament expenditure and in case the private expenditures as believed and ineffective in bringing about the required level



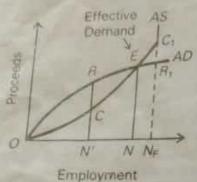
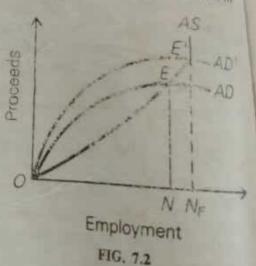


FIG. 7.1

not be, however, profitable the entrepreneurs to inch employment beyond this to level because the proceeds he sary (costs) exceed the process expected (revenue), i.e., Cily R<sub>1</sub>N<sub>f</sub> and they incur losses. The E, the point of effective demand determines the actual level employment in the cconomic which is of underemploymen 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 economys According to Keynes, the aggregate demand function depends on the consumption function and investment function. The cause of unemployment may be a fall in

consumption either expenditure- or investment expenditure, or both. The level of 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 ON is the level of full employment for the economy, it requires

new point of employment Ol is raised beyo hecause all the cannot be incr vertical portion

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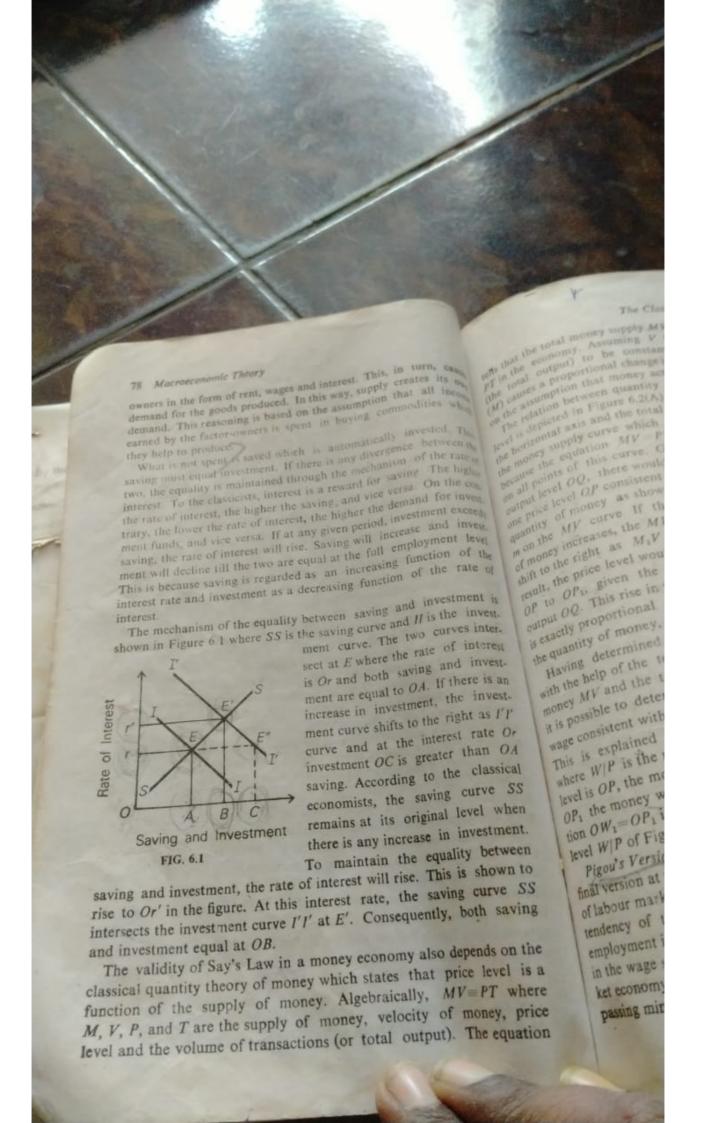
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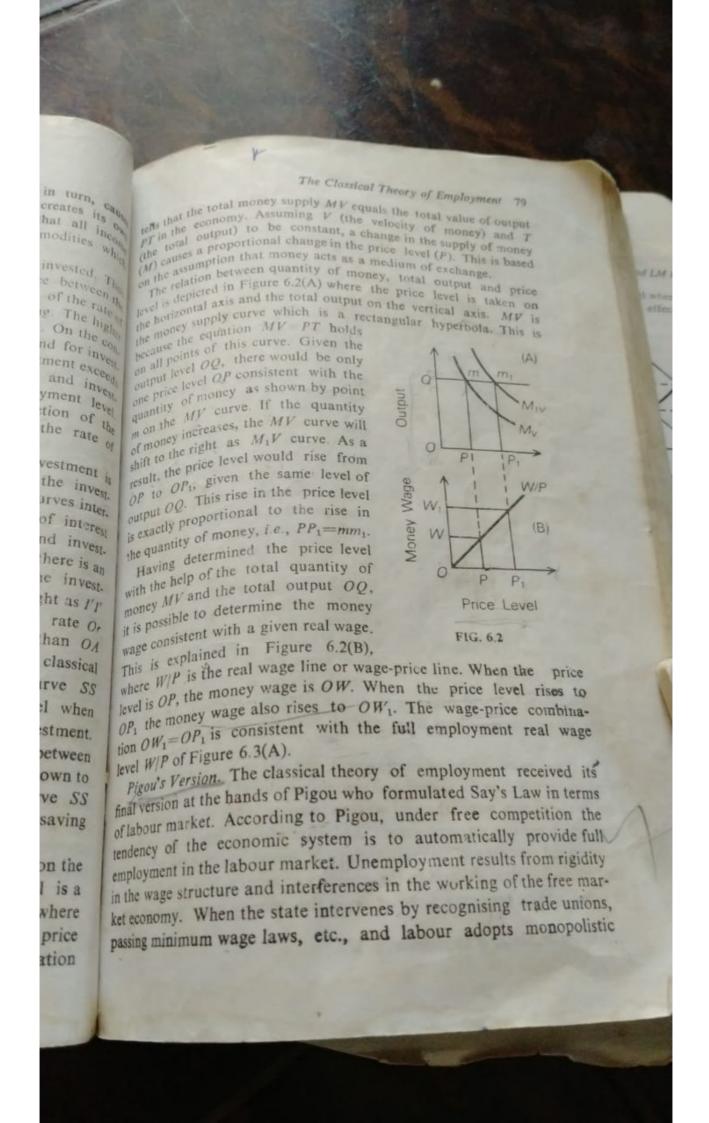
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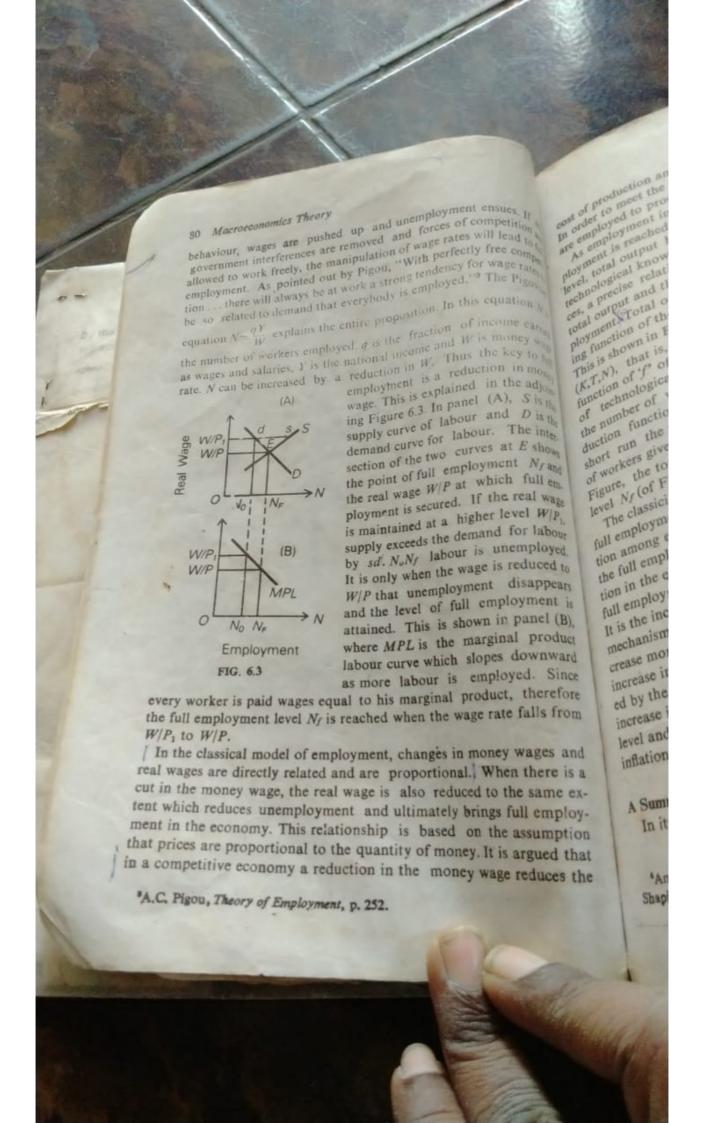
The Classical Theory of Employment 77 Money wages and real wages are directly related and propor al.
Capital stock and technological knowledge are given in the tional. short run.

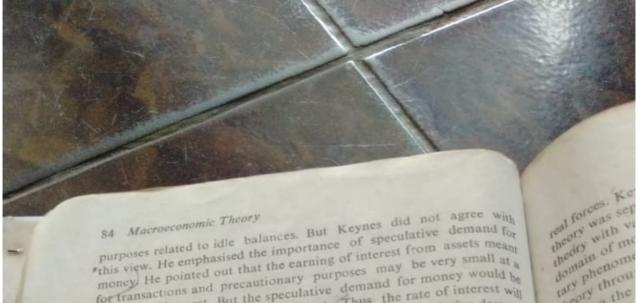
short run.

Say's Law of Markets is the core of the Say's theory of employment. Jean Baptiste Say, an early 19th classical theory Economist, enunciated the proposition that supply century french demand." This is known as Say's Law supply classical French Beontonia, chanciated the proposition that supply century own demand." This is known as Say's Law. In Say's century own definition which creates markets for goods A product words, sooner created than it, from that instant, affords A product words, "It is product than it, from that instant, affords A product is no sooner created than it, from that instant, affords a market for nt, Intere words, words to the full extent of its own value. Nothing is more other products to the demand of one product, than the ie classii other products to the demand of one product, Nothing is more favourable to its original form, the law is applicable of at about other sold its original form, the law is applicable to a barter heory W another where goods are ultimately sold for goods. Every good "classic economy where a demand for some other goods. Every good brought to the market is a demand for some other goods. Every good brought work being unpleasant no person will work to s to 54) brought to the his unpleasant no person will work to make a proto Say, work being to exchange it for some other product which he the transfer of the transfer s." Th duct unless he was the very act of supplying goods implies a demand Keyne desires. In such a situation there cannot be general overproduction for them. Supply of goods will not exceed demand as a second control of the supply of goods will not exceed demand as a second control of the supply of goods will not exceed demand as a second control of the supply of goods will not exceed demand as a second control of the supply of goods will not exceed demand as a second control of the supply of goods will not exceed demand as a second control of the supply of goods will not exceed demand as a second control of the supply of goods will not exceed demand as a second control of the supply of goods will not exceed demand as a second control of the supply of goods will not exceed demand as a second control of the supply of goods will not exceed demand as a second control of the supply of goods will not exceed demand as a second control of the supply of goods will not exceed demand as a second control of the supply of goods will not exceed demand as a second control of the supply of goods will not exceed demand as a second control of the supply of goods will not exceed demand as a second control of the supply of goods will not exceed demand as a second control of the supply of goods will not exceed demand as a second control of the supply of goods will not exceed demand as a second control of the supply of goods will not exceed demand as a second control of the supply of goods will not exceed demand as a second control of the supply of goods will not exceed demand as a second control of the supply of goods will not exceed demand as a second control of the supply of goods will not exceed demand as a second control of the supply of goods will not exceed demand as a second control of the supply of goods will not exceed demand as a second control of the supply of goods will not exceed demand as a second control of the supply of goods will not exceed demand as a second control of the supply of goods will not exceed demand as a second control of the supply of goods will not exceed demand as a second con en buil for them. In such goods will not exceed demand as a whole. But a d police because supply be overproduced because the producer incorrectly the quantity of the product which others want ynesia particular good that a particular good the quantity of the product which others want But this is es, iti e timates the quantum phenomenon for the excess production of particular proymen a temporary price at time by reducing its production of particular product can be corrected in time by reducing its production. James Mill duct can be control and in these words, "Consumption is co extensive supported Say su with productions with productions with productions of the sole cause of demand. It never furnishes supply without furnishing demand, both with. demand. If he and both to an equal extent ... whatever the amount force at the same that at the same transfer of annual produce, it can never exceed the amount of annual of annual transfer of annual and of annual Thus supply creates its own demand and there cannot be asa demand. demand and the general unemployment. hing The existence of money does not alter the basic law. "Say's law, in The The existence and way, is," as Professor Hansen has said, "a description ving of a free-exchange economy. So conceived, it illuminates the truth of a free-extension source of demand is the flow of factor income generated that the main source of production itself 22 Wh that the man the process of production itself."2 When producers obtain the gu from the production various inputs (land, labour and capital) to be used in the production process, they generate the necessary income accruing to the factorn 1.B. Say, Political Economy, (4th ed.), Vol. 7, pp. 144, 167, 170. A.H. Hansen, A Guide to Keynes, p. 3.









purposes related to idle balances. But Reyland demand for this view. He emphasised the importance of speculative demand for money. He pointed out that the earning of interest from assets mean for fransactions and precautionary purposes may be very small at a low rate of interest. But the speculative demand for money would be infinitely large at a low rate of interest. Thus the rate of interest will not fall below a certain minimum level, and the speculative demand for money would become perfectly interest elastic. This is Keynes

'liquidity trap' which the classicists failed to analyse, As a corollary, Keynes pointed out that it was possible for saving to exceed investment while the rate of interest was positive. The liqui. dity 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 // the investment curve. If the liquidity trap is at Or1 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

ment.

Saving and Investment FIG. 65

at point E. At the liquidity tran level Or, saving exceeds investment by i1 51. So the economy will not settle at the full employ. ment level (E) where saving and investment are equal but at underemployment equilibrium where saving exceeds invest-

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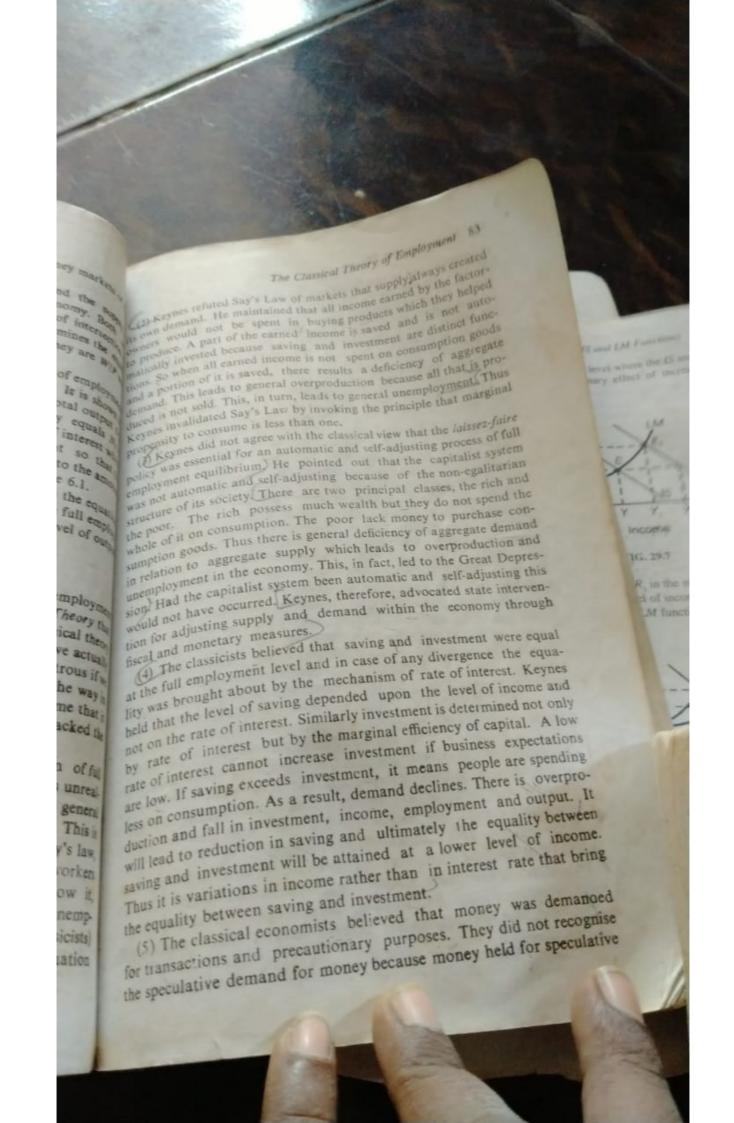
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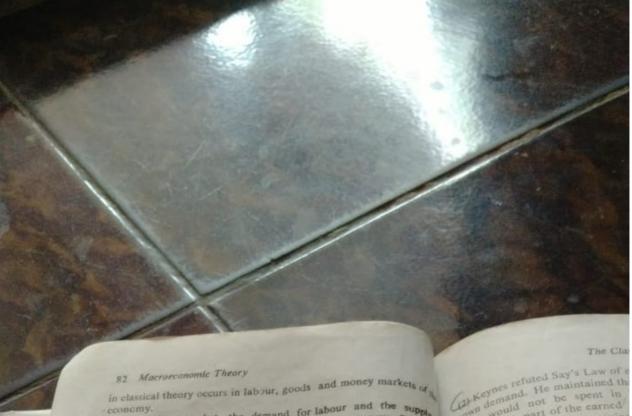
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Keynes further pointed out that even if the rate of interest were to fall to zero, there would still be an excess of saving over investment. This is also explained in Figure 6.5 where the curve II

has shifted to the extreme left as I1I1 showing fall in investment. Such a possibility exists under a depression. At zero interest rate saving exceeds investment by ioso. 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





in classical theory occurs in labour, goods and money markets of

onomy.

In the labour market, the demand for labour and the supply labour determine the level of employment in the economy. Both labour determine the level of employment in the point of intersection functions of the real wage rate (W/P). It is the point of intersection functions of the real wage rate (W/P). functions of the real wage rate (W/P). It is thich determines the equation the demand and supply curves of labour which determines the equation of the demand and supply curves of labour which determines the equation of brium wage rate and the level of full employment. They are Wil

Ny respectively in Figure 6.3.

The total output, in turn, depends upon the level of employment The total output, in turn, depends upon the given the capital stock and technological knowledge. It is shown by given the capital stock and technological which relates total output of the production function Q = f(K, T, N) which relates total output of the production function Q = f(K, T, N) which exactly equals  $N_{f_{ij}}$  to  $N_f$  level of full employment in Fig. 6.4 which exactly equals  $N_{f_{ij}}$ Figure 6.3. Further, it is the mechanism of the rate of interest which brings about the equality of saving and investment so that the amount of commodities demanded should remain equal to the amount supplied at the full employment level, as shown in Figure 6.1.

Equilibrium in the money market is represented by the equation MV=PT. It explains the price level corresponding to the full employ. ment level of output. It is OP1 corresponding to OQ level of output

in Figure 6.2(A).

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 teranca say's Law of a law of a demand. He maintained the spent would not be spent is own demand not be spent in owners would not be spent in owners would not be spent in to produce. A part of the carned to produce invested because to produce invested because saving matically three all carned income tions 50 when all carned income tions portion of it is saved tions 50 when an earned income and a portion of it is saved, the and a portion leads to general o demand. In sold. This, in turn, duced is invalidated Say's Law Keynes invalidated Say's Law propensity to consume is less to role Keynes did not agree wi was essential for an au employment equilibrium) He was not automatic and selfstructure of its society The the poor. The rich posse whole of it on consumption sumption goods. Thus the in relation to aggregate unemployment in the eco sion Had the capitalist would not have occurred tion for adjusting suppl fiscal and monetary mi (4) The classicists b at the full employmen lity was brought abou held that the level of not on the rate of in

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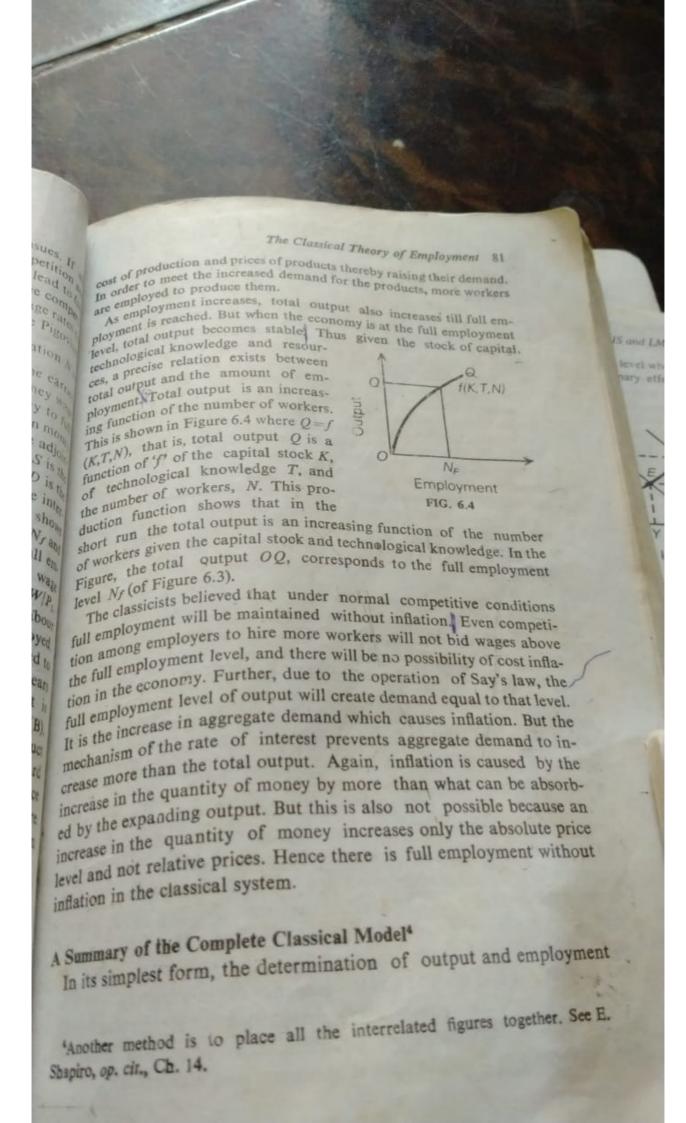
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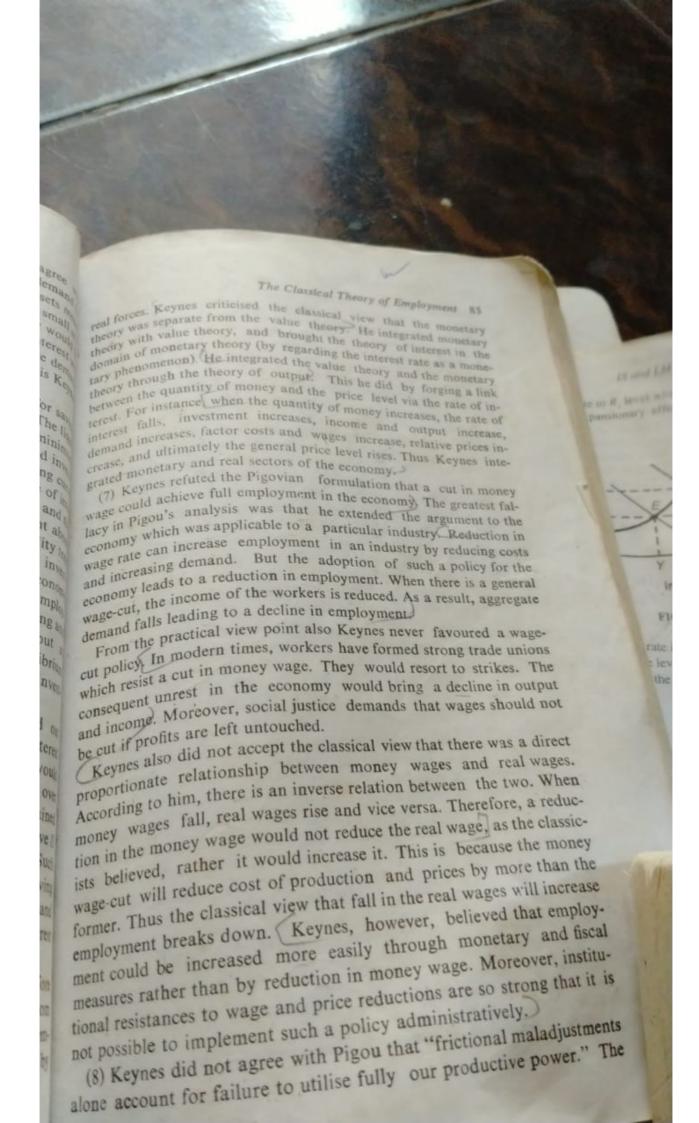
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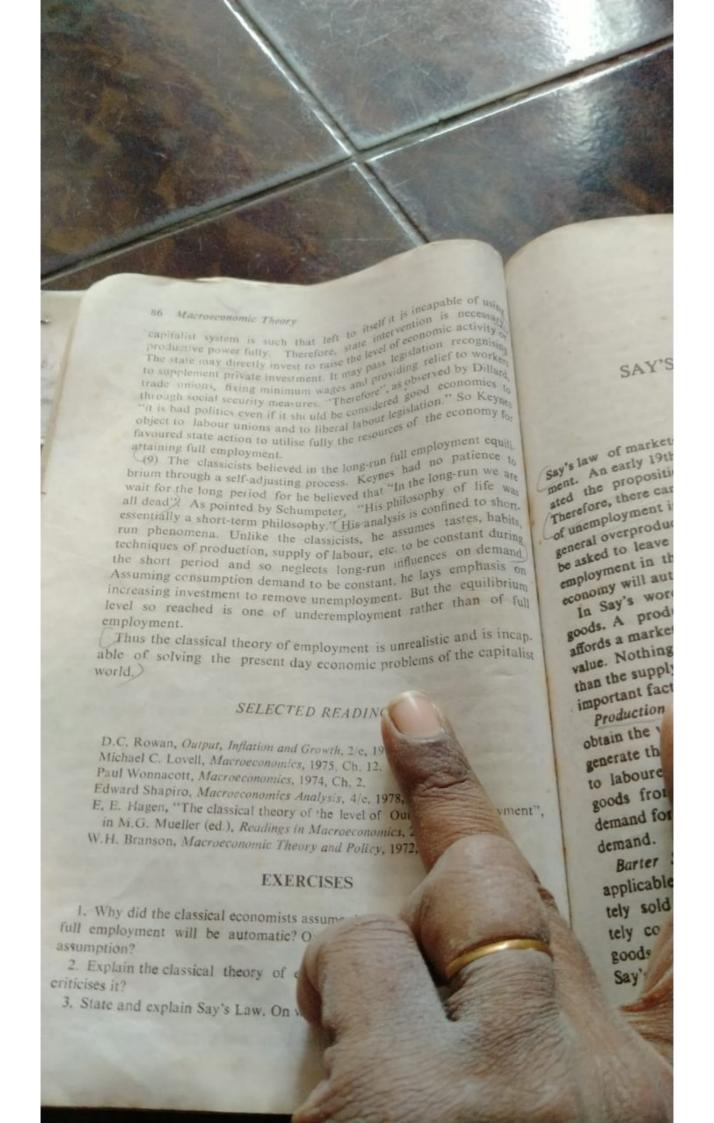
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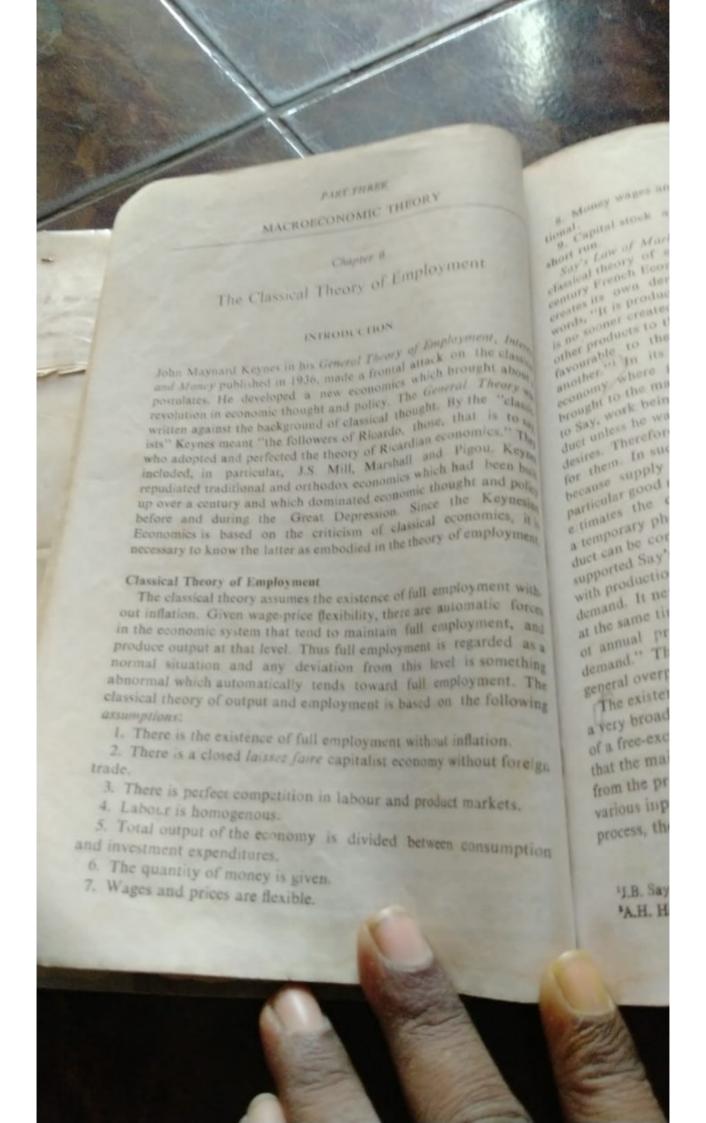
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The Principle of Effective Demand 99

the raising of the point of effective demand. This is possible by the raising aggregate demand curve to AD' (last column of Table III) the aggregate supply curve AS at E'. This is the where it interest of effective demand which provides an of Table III) where point of the economy. If the aggregate demand level of new point ON to the economy. If the aggregate demand function amployment beyond this point the economy will experience inflation is raised all the existing resources are fully employed and their supply be increased during the short run, as is appearance in the d.S. curve in a six appearance in the d.S. curve in the d.S. because all the cause during the short run, as is apparent from the eannot be little of the AS curve in the Figure 7.2.

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Intportance of Effective Demand The principle of effective demand is the most important contribu-The principle. It is the soul of the Keynesian theory of employment, the principle of Keynesian theory of employment. of Keynesian revolution solely to the develop-

ccon mploym pr Klein theory of effective demand. peterminant of Employment. Effective demand determines the level peterminate in the economy. When effective demand increases, of employment also increases, and a decline in effective demand increases, employment also increases, and a decline in effective demand decreaemployment of employment Thus unemployment is caused by a ses the level of effective demand. Effective demand represents the total deficiency on the total output produced at an equilibrium level of expenditure. It indicates the value of total output which equals national income. National income equals national expenditure. national expenditure consists of expenditure on consumption goods. Thus the main determinant National ment goods. Thus the main determinants of effective demand and the level of employment are consumption and investment. In and the Effective Demand=Value of National Output=Volume of Employment = National Income = National Expenditure = Expenditure on consumption goods + Expenditure on investment goods.

In the Keynesian analysis of effective demand consumption and investment expenditures relate to the private sector because Keynes considers government expenditure as autonomous. But the post-Keynesian economists include government expenditure as a component of effective demand. Thus, effective demand (D)=Private consumption expenditure (C)+Private investment (I)+Government expenditure (G) on both.

We may conclude that the importance of the principle of effective demand lies in pointing out the cause and remedy of unemployment. Unemployment is caused by a deficiency of effective demand and it can be removed by an increase in consumption expenditure or and investment expenditure and in case the private expenditures are insufficient and ineffective in bringing about the required level of os Macroeconomic increasing employment till ON level is really the proceeds expression to provide the proceeds expression the proceeds expression to provide Effective Demand Employment FIG. 7.1

sary equal at point not be, however, pre entrepreneurs employment beyond level because the proc sary (costs) exceed the expected (revenue), L. R<sub>1</sub>N<sub>f</sub> and they incur los E, the point of effective determines the employment in which is of underempl equilibrium.

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Of the two determinants of effective demand, Keynes regarded to be given because it dens. of the two determinants be given because it depends aggregate supply function to be given because it depends aggregate supply function to aggregate supply function to the availability of raw technical conditions of production, the availability of raw man technical conditions of production the short run. It is, machines, etc. which do not change in the short run. It is, the machines, etc. which do not which plays a vital role in determine the aggregate demand function which plays a vital role in determine the aggregate demand in the economy. According to the aggregate demand function determined to keyne the level of employment in the economy. According to keyne the level of employment in aggregate demand function depends on the consumption function aggregate demand function. The cause of unemployment may be a

consumption expendieither expendiinvestment ture- or The level of ture, or both. 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.

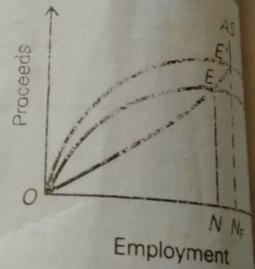


FIG. 7.2

It follows that to raise the economy to the level of full employe requires the raising of the point of effective demand by increasing aggregate demand. This is illustrated in Figure 7.2, where Est point of effective demand which determines ON level of employed If ON, is the level of full employment for the economy, it requ oply function from empla s of the w o rises. ic aggregation c aggrega ent as

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Table Is shows that so long as the aggregate demand price is higher the aggregate workers, when Table III surgeregate supply price, it is profitable for the entrepreneurs the more workers, when the entrepreneurs expect to receive amounting to Rs 215 crores, Rs 230 crores than the proceeds Rs 250 crores than the proceeds they will provide increasing employment to 20 letters and Rs 245 Rs will provide increasing employment to 20 lakh, 25 lakh crores, they workers respectively. But when the proceeds necessary and proceeds expected equal Rs 260 crores the level of employment and proceeds lakhs. This is the point of effective demand. If we asrises the level of full employment to be 40 lakh workers in the ecosume it will necessitate the drawing up of a new aggregate demand nomy, schedule as shown in Table III last column. As a result, the new price schedule demand is 40 lakh workers because both the new point of effective and the aggregate supply price equal D point of effect price and the aggregate supply price equal Rs 275 crores. gate demand 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)	Aggregate Supply Price (Z) (Rs crores)		Demand e (D) Crores)
20	215	230	235
25	230	240	245
30	245	250	255
35	260	260	265
40	275	270	275
40	290	280	285
40	305	290	295

Figure 7.1 illustrates the determination of effective demand where tal and is the aggregate demand function and AS the aggregate supply-Oy 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' leve' of employment the proceeds expected (revenue) are more than the proceeds necessary (costs), i.e., RN'>CN'. This indicates that it is profitable

employment. According to Keynes, the aggregate supply and is exployment and is exployment and is exployment. employment. According to Keynes, the aggregate supply an increasing function of the level of employment and is exprise an increasing function of the supply price of the output from employment. An analysis of the level of employment and is expressing function of the level of employment and is expressing function of the level of employment and is expressing an increasing function of the level of employment and is expressing  $Z = \phi N$ , where Z is aggregate supply price of the output from  $Z = \phi N$ , where Z is aggregate supply price of the output from  $Z = \phi N$ , where Z is aggregate supply price of the output from  $Z = \phi N$ , where Z is aggregate supply price of the output from  $Z = \phi N$ , where Z is aggregate supply price of the output from  $Z = \phi N$ . The aggregate supply curve can be drawn on the basis of the The aggregate supply curve can be did because as the dule. It slopes upward from left to right because as the dule. It slopes upward from left to light employment also respected proceeds increase, the level of full employment. expected proceeds increase, the level of full employment, the when the economy reaches the level of full employment, the second when the economy reaches the level of full employment, the second when the economy reaches the level of full employment, the second when the economy reaches the level of full employment, the second when the economy reaches the level of full employment, the second when the economy reaches the level of full employment, the second when the economy reaches the level of full employment, the second when the economy reaches the level of full employment, the second when the economy reaches the level of full employment, the second when the economy reaches the level of full employment is the second when the economy reaches the level of full employment is the second when the economy reaches the level of full employment is the second when the economy reaches the level of full employment is the second when the economy reaches the level of full employment is the second when the economy reaches the level of the level o

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Determination of Effective Demand

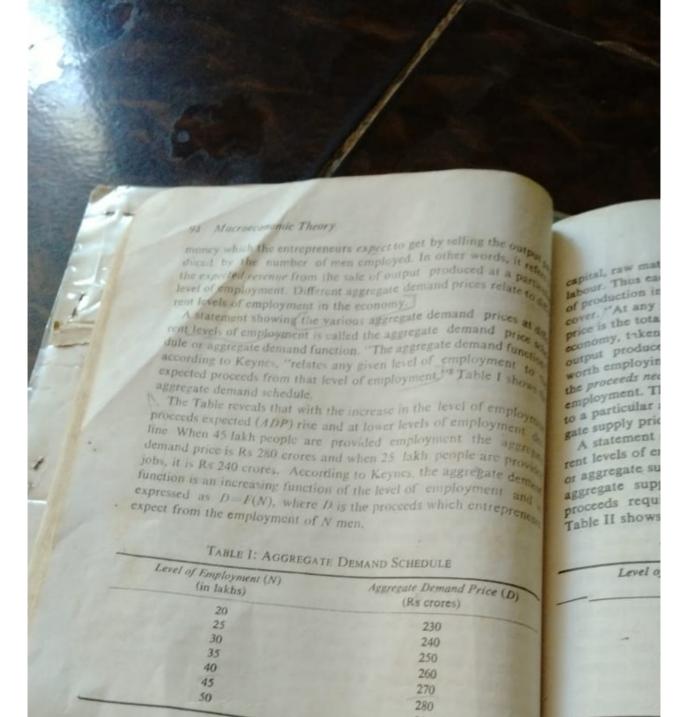
We have studied the two determinants of effective demand separately with the process of determinants of effective demand separately with the effective demand separately wit Determination of Effective Demand nomy We have studied the two determinants the process of determining ly and now are in a position to analyse the process of determining the geonomy. The level of employers price ly and now are in a position to analyse. The level of employment in the economy. The level of employment in the aggregate demand price point level of employment in the economy.

level of employment in the economy.

determined at the point where the aggregate demand price equals determined at the point where words, it is the point where gate determined at the point where the aggregate supply price. In other words, it is the point where what aggregate supply price. In other words, what they must receive what Beyon is ste entrepreneurs expect to receive equals the effective demand profits are maximised. This point is called the effective demand profits are maximised. This point is carrottes. So long as the aggreente the entrepreneurs earn normal profits. So long as the aggreente supply price. The here the entrepreneurs earn normal production the prosper demand price is higher than the aggregate supply price, the prosper demand price is higher than the aggregate supply price, the prosper demand price is higher than the aggregate supply price, the prosper demand price is higher than the aggregate supply price. demand price is higher than the 488 when more workers are of getting additional profits are greater when more workers are of gefting additional profits are givenue) rise more than vided employment. The proceeds expected (revenue) rise more than proceeds necessary (costs). This process will continue till the gate demand price equals the aggregate supply price and the point effective demand is reached. This point determines the level of employee ment and output in the economy. The point of effective demand however, not necessarily one of full employment but of underempla ment equilibrium. If the entrepreneurs try to provide more emplo ment after this point, the aggregate supply price exceeds the aggregate demand price indicating that the total costs are higher than the total revenue and there are losses. So the entrepreneurs will not emplo workers beyond the point of effective demand till the aggregate mand price rises to meet the aggregate supply price at the new equil brium point which may be one of full employment. If the aggregat demand price is raised still further, it will lead to inflation for the increase in employment and output is possible beyond the level of ful employment. The following table explains the determination of the point of effective demand.

J.M. Keynes, op. cit., p. 25.

pointa pent instea accept a Chapter 7 ment The principle of Effective Demand: Aggregate Demand and Aggregate Supply ket Theret mployo The logical starting point of Keynes's theory of employment is the e oppos The logical starting the logic the logic of effective on effective demand. Thus unemployment is the principle of deficiency of effective demand and the level of employment respend principle depends of effective demand. Thus unemployment reemployment a deficiency of effective demand and the level of employment results from a by increasing the level of effective demand. from a deficiency increasing the level of effective demand, Meaning parlance demand means desire. It becomes effective In ordinary is spent in buying consumption goods and investmen when income used the term 'effective demand' to denote it neot when keynes used the term 'effective demand' to denote the tota ossible goods Reynes and services at various levels of employment to denote the total demand for goods and services at various levels of employment. Diffe tround demand for goods are employment represent different levels of employment. Diffe levels but there can be a level of employment where aggregate and But there supply. This is the demand. But there can be a level of employment where aggregate demand. The value of D (A) demand equals aggregate supply. This is the point of effective demand mand equals aggress. The value of D (Aggregate Demand) at the point of effective demand in Keynes's words. The value of D (Aggregate Demand) at the point of effective demand in Keynes's words. In Keynes's Wolden and function, where it is intersected by the Aggree of Aggregate function, will be called the effective demand. of Aggregate Delion, will be called the effective demand." Thus gate Supply full to Keynes, the level of employment is determined by effective demand." Thus according to Which, in turn, is determined by aggregate determined by effective demand. according to Kely according to Kely in turn, is determined by aggregate demand by effective demand supply 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 expectof employment of the output produced when that amount of labou ed from the size Thus the aggregate demand price is the amount of labou We have confined our analysis to Keynes's method of deriving aggregate demand and aggregate supply functions. For an alternative analysis refer to E. Shapiro, op. cit., Ch. 13. D. Dillard, op. cit. sop. cit.



The aggregate demand curve can be drawn on the basis of the above 290 schedule. It slopes upward from left to right because as the level of 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 labour, it requires certain quantities of cooperant factors like land,

The above the increase in provide empl crores from th they expect crores, Rs 245 loyment to m ly). But when 40 lakh wor crores) conti

> 'Stonier and D. Dillar

material, etc. which will be paid remuneration along with . It refers This each level of employment involves certain money costs a partie pholicion locluding normal profits which the entrepreneur must the total amount of money which all the entrepreneur must be to the total together, must expect to receive from the service of the together. produced by that given number of men, if it is produced by that given number of men, if it is to be just the employing them." If brief, the aggregate supply pricessary from the sale of the produced by the given number of men, if it is to be just any employing them." If brief, the aggregate supply price refers to with employing them. Thus each level of employing at a particular the sale of output at a particular them. function arch employed necessary from the sale of output at a particular level of the proceed. Thus each level of employment in the economic level of aggregate supply price. the process Thus each level of employment in the economy is related employment aggregate supply price and there are different levels of employment in the economy is related of particular aggregate supply price and there are different aggregated as supply prices for different levels of employment, and supply prices for different levels of employment, and supply prices for different levels of employment, and supply prices for different levels of employment. particular particular prices for different levels of employment, statement showing the various aggregate A statement showing the various aggregate supply prices at diffe-

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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 provide the 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

Stonier and Hague, A Text Book of Economic Theory, p. 381. 'D. Dillar 1, op. cit., p. 31.

earned by the factor owner and divergence beto causes in the help to produce. Saved which is any divergence beto causes in they help to produce. Saved if there is any divergence beto causes in they help to produce. The the assument which is not spent is saved if the mechanism of the the assument wing must equal investment. The the relative two, the constitution is maintained in a reward vice were the product of the parallel in the maintained in a reward vice were the product of the parallel in the maintained in the parallel in the maintained in the parallel in the parallel in the maintained in the parallel in the parallel in the maintained in the parallel in the parallel in the maintained in the parallel in t they help to produce. Saved which is any enhants of the the assumed what is not spend saved if there is mechanism of the the assumed which is a reward vice versa. On the life is done two, the equality is maintained his a reward vice versa. On the life is done interest. To the charicists, interest wing, and the done is a reward vice versa. what is not spenter save. If they the meeting of the the assuments aving must equal investment, through the present of the the relation two, the equality is maintained they are and vice versu. On the latest depiction, the classicists, interest interest. To the classicists, interest the tath of the higher the save higher the save higher the save higher the save and the save are the save and the save higher the s two, the equality is maintained throw reward vice versa. On the lat is depictive interest. To the classicists, interest sixing, and the demand for money the rate of interest, the higher the sixing period, investment that the laws of interest, the higher period, investment that the laws of interest sixing period, investment that the laws of interest sixing period, investment that the laws of interest sixing period, investment the laws of interest sixing period. interest. To the classicists, interest line saving, and the demand for money the rate of interest, the higher the saving period, investment trary, the lower the rate of interest, and will increase ment founds and the last of interest, and the lower the rate of interest, and will increase ment founds and the last of interest, and the lower the rate of interest, and will increase the last of interest, and the lower the rate of interest, and will increase the last of interest. the rate of interest, the higher the higher period, investment of money ause the trary, the lower the rate of interest, the higher period, increase and ause the ment funds, and vice versa. If at any given pull increase and all possible saving, the rate of interest, the full employ. ment funds, and vice versa. If at any given per full increase and saving, the rate of interest will rise, saving will employment will decline any good at the full employment. ment funds, and vice versa. If al an Saving will employment that level saving, the rate of interest will rise, saving function of the saving ment will decline till the two are equal at increasing function of the saving function. saving, the rate of interest will use an increasing function of the saving interest will decline till the two are equal at the function of the saving is regarded as an interest of the saving is regarded as a saving is reg ment will decline till the two are via an increasing function of the function. This is because saving is regarded as a decreasing function of the raion the interest rate and investment as a decreasing terest.

The mechanism of the equality between saving curve and II is the property of the saving curve and II i The mechanism of the equality between saving curve and II is the inult, the shown in Figure 6.1 where SS is the saving curve. The two curves in sect at E where the rate of int put o is Or and both saving and in Exactly ment are equal to OA. If there i quan increase in investment, the in Havin Rate of Interest ment curve shifts to the right as h the curve and at the interest rate s pos investment OC is greater than ge co saving. According to the classis is economists, the saving curve ere 0 C ·A B remains at its original level whelis Saving and Investment there is any increase in investme 1 FIG. 6.1 To maintain the equality between saving and investment, the rate of interest will rise. This is shown pla rise to Or' in the figure. At this interest rate, the saving curve rise to Or' in the lighte.

intersects the investment curve I'l' at E'. Consequently, both savination The validity of Say's Law in a money economy also depends on tapl The validity of Say's Law.

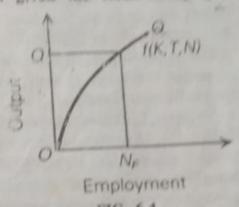
The validity of Say's Law.

Classical quantity theory of money which states that price level is the supply of money. Algebraically price level is the classical quantity theory of money. Algebraically price level is the function of the supply of money. Algebraically price level is the price of transfer of transf classical qualiform of the supply of money, price level when M, V, P, and T are the supply of money, MV = PT when MV =(or total output). The equation

ction and prices of products thereby raising their demand. seet the increased demand for the products, more workers to produce them.

nent increases, total output also increases till full emached. But when the economy is at the full employment tput becomes stable. Thus given the stock of capital.

knowledge and resourrelation exists between nd the amount of emal output is an increasf the number of workers. n Figure 6.4 where Q-f is, total output Q is a of the capital stock K, cal knowledge T, and workers, N. This proon shows that in the



total output is an increasing function of the number en the capital stock and technological knowledge. In the tal output OQ, corresponds to the full employment

gure 6.3).

is believed that under normal competitive conditions it will be maintained without inflation. Even competiployers to hire more workers will not bid wages above ment level, and there will be no possibility of cost inflanomy. Further, due to the operation of Say's law, the it level of output will create demand equal to that level. e in aggregate demand which causes inflation. But the he rate of interest prevents aggregate demand to inin the total output. Again, inflation is caused by the quantity of money by more than what can be absorbiding output. But this is also not possible because an quantity of money increases only the absolute price lative prices. Hence there is full employment without classical system.

the Complete Classical Model<sup>4</sup>

form the determination of output and employment

behaviour, wages are pushed up and forces of co behaviour, wages are removed of wage rates will be a strong tendency for a production allowed to work freely, the manipulation of wage rates will be at work a strong tendency for a production allowed to work as pointed out by pigou, allowed to work as pointed out by pigou, allowed to work as pointed out by pigou, and work a strong tendency for a production allowed to work as pointed out by pigou, and work a strong tendency for a production allowed to work as pointed out by pigou, and work a strong tendency for a production allowed to work as pointed out by pigou, and work a strong tendency for a production allowed to work as pointed out by pigou, and work a strong tendency for a production allowed to work as pointed out by pigou, and work a strong tendency for a production allowed to work as pointed out by pigou, and the pigou allowed to work as pointed out by pigou, and the pigou allowed to work as pointed out by pigou, and the pigou allowed to work as pointed out by pigou and the pigou allowed to work as pointed out by pigou and the pigou allowed to work as pointed out by pigou and the pigou allowed to work as pigou and th behaviour, interference manipulation of wage rates will be a severy body is employed. 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Y is the national income and W is made abuses. Y is the national income and wis made abuses. the number of workers employeer of the national income and W is more a precise reason wages and salaries, Y is the national income and W. Thus the national by a reduction in W. Thus the national by a reduction in W. the number as wages and salaries, y is the national way. Thus the keal output and rate, N can be increased by a reduction in w. Thus the keal output and rate. N can be increased by a employment is a reduction; yment. Total ing Figure 6.3. In panel (A), T,N), that supply curve of labour and action of f demand curve for labour. The technology section of the two curves at a number of W/P the point of full employment tion fund WIP the real wage W/P at which f ployment is secured. If the rea pure, the is maintained at a higher level el Nf (of supply exceeds the demand for the class by sd. NoNs labour is unemplemploy (B) WIP. It is only when the wage is reduce amon WIP W/P that unemployment disap full en MPL and the level of full employmen in th attained. This is shown in panel empl No No where MPL is the marginal pus the Employment labour curve which slopes down chani FIG. 6.3 as more labour is employed. every worker is paid wages equal to his marginal product, then by t the full employment level Ns is reached when the wage rate falls reas  $W/P_1$  to W/P. In the classical model of employment, changes in mone vage latie real wages are directly related and are proportional. cut in the money wage, the real wage is also reduced here tent which reduces unemployment and ultimately brin ment in the economy. This relationship is based on the that prices are proportional to the quantity of money. It is in a competitive economy a reduction in the money wage re-\*A.C. Pigou, Theory of Employment, p. 252.

money supply MV equals the total value of output by. Assuming V (the velocity of money) and T) to be constant, a change in the supply of money portional change in the price level (P). This is based

that money acts as a medium of exchange. tween quantity of money, total output and price a Figure 6.2(A) where the price level is taken on s and the total output on the vertical axis. MV is curve which is a rectangular hyperbola. This is

tion MV PT holds his curve. Given the there would be only e consistent with the ey as shown by point irve. If the quantity es, the MV curve will as M<sub>1</sub>V curve. As a evel would rise from en the same level of rise in the price level tional to the rise in noney, i.e.,  $PP_1 = mm_1$ . mined the price level the total quantity of the total output OQ, determine the money with a given real wage.

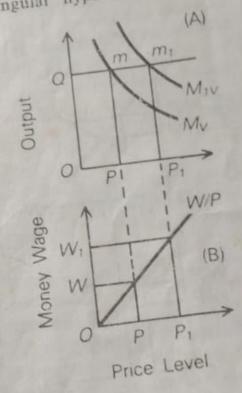


FIG. 6.2

ne real wage line or wage-price line. When the price money wage is OW. When the price level rises to wage also rises to OW1. The wage-price combinais consistent with the full employment real wage

on. The classical theory of employment received its the hands of Pigou who formulated Say's Law in terms et. According to Pigou, under free competition the e economic system is to automatically provide full the labour market. Unemployment results from rigidity ucture and interferences in the working of When the state intervenes by recognisin

um wage laws, etc., and labour