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# An Introduction to ECONOMIC ANALYSIS AND POLICY

# An Introduction to ECONOMIC ANALYSIS AND POLICY

By

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#### PREFACE

IN recent years there have been important developments in Economic Theory—notably in the analysis of Money and Unemployment by Mr. Keynes, and in the theory of Imperfect Competition by such writers as Mrs Robinson and Mr. E. Chamberlin. Many of these new ideas are not yet available to any but the trained economic theorist; for new scientific work must always at first be stated in technical terms. It is the primary object of this book to expound the whole corpus of Economic Theory without taking any knowledge of technical terms for granted and with full use of the more recent developments. I have not shirked any point in which economic analysis is relevant for the determination of economic policy; and for this reason this book is not always easy to read. But I have tried to write in such a way that any one with patience and the power of clear reasoning can understand it.

In this book I have discussed economic theory with direct reference to the economic problems of the modern world. As a teacher of the subject I have often found that men, who come to economics to find an answer to the pressing problems of the moment, cannot see that the formal analysis of the text-book has anything to do with the real world. Such formal analysis is, however, essential for a full understanding of practical problems, and the rigid text-book analysis must be mastered; but in this book I have attempted to supplement that training by combining it with the direct discussion of economic problems. This method has made it necessary to advocate a particular economic policy.

There is nothing original in this work, which is a transcription of the work of many authors; and it is impossible for me to enumerate fully the writers to whom I am indebted. Nearly every economic author, whom I have read, has directly or indirectly affected this book. But there are certain authors whom I must mention specifically, and I hope that I will be

vi PREFACE

excused if I have failed to acknowledge direct indebtedne to others Mr. J. M Keynes's Treatise on Money and General Theory of Employment, Interest and Money have inspired th whole of Part I of this book, which has also been direct influenced by the work of Mr. R. F. Kahn; and certain passages in Chapters VI and VIII of Part I have been reca after reading Mr. R. F. Harrod's Trade Cycle. The sui gestion about the Sinking Fund on p 45 is taken from evidence given by Professor A. L. Bowley to the 'Colwy Committee', and is to be found on pp 323 to 328 of th Report of the Committee on the National Debt and Taxatio 1927 Part II has been constructed on the foundations Mrs. Robinson's Economics of Imperfect Competition, Mr ] Chamberlin's The Theory of Monopolistic Competition, ar Professor Pigou's Economics of Welfare, as well as upo articles by Mr. R. F. Hafrod and other authors; while p 156 to 164 are a transcription of an argument in Mr R. Kahn's article in the *Economic Journal*, for March 102 entitled 'Some Notes on Ideal Output'. Chapter VIII Part II has gained much from articles of Mr. M. Dobl Mr. H. D. Dickinson, and Mr. A. P. Lerner in the Econom Journal and the Review of Economic Studies. Part III own much to Dr. Hugh Dalton's The Inequality of Incom and Mr. Wedgwood's The Economics of Inheritance, whi Chapter IV of this Part is largely based on the works c Public Finance of Dr. Hugh Dalton, Professor Pigou, S. Josiah Stamp, and others. In Part IV, pp. 278 and 279 at merely a numerical illustration of the proof given by M J. M. Keynes for a proposition of Mr. F. P. Ramsay in h article in the Economic Journal for December 1928, entitle 'A Mathematical Theory of Saving'. Part V is based upo many works on the Theory of Money, as well as upon tex books on International Trade, such as Professor Taussig Theory of International Trade and Mr. R. F. Harrod International Economics.

Mrs. Robinson has read the whole of the manuscript Parts I to IV, and I am very grateful for the many materi

improvements suggested by so able a professional economist. Dr. N. J. Abercrombie has nobly played the part of the intelligent amateur, and his detailed criticisms have greatly improved the exposition. My sister has done the same for Part I and suggested the insertion of an important section. I have been greatly helped by my wife in revising the book. To all of these I would express my sincere gratitude.

HERTFORD COLLEGE, OXFORD.

J. E. M.

April 1936.

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#### INTRODUCTION

BEFORE any economic system can provide the highest possible standard of living, four conditions must be fulfilled.

- 1. No economic resources, which are willing to work, must stand idle. This problem—the problem of Unemployment or of poverty in the midst of plenty—is discussed in Part I.
- 2. The available economic resources must be set to work to produce in the greatest possible quantities those products which consumers most desire; this condition will remain unfulfilled, so long as it is possible by producing less of one thing to produce more of another, which consumers desire more urgently. This is the problem of Competition, Monopoly, and Planning, which is the subject of Part II.

3. The income of the community must be distributed among individuals in such a way that the greatest possible satisfaction is obtained from the limited national income. The Distribution of Income is the subject of Part III.

4. The standard of living will not be the highest possible, unless a proper balance between work and leisure is maintained and unless the total population and the total stock of capital are forthcoming in the most appropriate amounts. Part IV discusses this problem of the 'optimum' supply of

the factors of production, labour and capital.

If these four conditions are fulfilled, the standard of living will be the highest which it is possible with a given knowledge of industrial technique to obtain from a given supply of natural resources. Parts I to IV are based on the assumption of a self-contained economic system. But in the real world no economy is isolated in this way; for each government must consider the effect of its economic policy upon economic relations with other countries. Part V is therefore devoted to International Economic Problems. This discussion gives rise to no further fundamental economic problem, but shows

merely the international aspects of the four fundamenta questions discussed in Parts I to IV.

Some of these problems are more urgent and some are more easily solved than others. The most glaring economic ab surdity at present is the existence of unemployed resources in a world in which there are many needs still to be satisfied For this reason the policy discussed in Part I—together with its international aspects in Part V—is the most pressing and the nearest to 'practical politics'. Fortunately, as we shall see the solution of this problem needs least governmental interference. This problem should certainly be solved before all others, for, as long as there are unemployed resources, it is possible to produce a larger real income and so to improve every one's standards without causing any one to be worse off The solution of this problem—unlike the problem of redistributing income—requires no change of heart and offends no vested interests; it requires simply a clearer understanding. and if the argument of Chapter VIII of Part V is correct, its solution should strengthen the economic foundations of world peace. The problem of Part IV, with the exception of the question of the best balance between work and leisure discussed on pp. 259 to 262, is the most far removed from 'practical politics'; for it involves controlling the size of the population.

Opinions are likely to differ as to whether the problem of Part II or that of Part III should take precedence in any practical economic programme. On the one hand, the redistribution of income involves in its clearest form the problem of 'vested interests', since it is impossible to redistribute income without making some persons worse off than before; whereas the solution of the problems raised in Part II will increase the total national income available for distribution, and is therefore theoretically compatible with a rise in every one's standards. On the other hand, as we shall argue in Chapter IV of Part III, income can be safely redistributed by a simple extension of the existing taxing function of government; whereas the problem of Part II cannot be successfully

met without a large measure of government control over industry.

It is not suggested that a definite order of preference can be laid down in any practical economic policy for the solution of the different problems discussed in this book. Different readers will lay the emphasis on different problems; and—as we shall show more than once in the course of this book—there are many reforms which will aid the solution of more than one problem at the same time. But no sound economic policy can tackle every problem at once; and it is, I think, at least certain that the problem of unemployment should immediately receive the greatest emphasis. Beyond this, these introductory remarks may enable the reader to preserve a better balance in his judgement as he moves through the details of the following pages.

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## CHART I

A	<b>B</b>	C	D	A	В	C	D	A	В	С	D	A	В	С	D	A	В	C	D		A	В	C	D
Output	Average cost	Total cost	Marginal cost	Output	Demand price	Total receipts	Marginal receipts	Output	Demand price	Total receipts	Marginal receipts	Output	Demand price	Total receipts	Marginal receipts	Output	Demand price	Total receipts	Marginal receipts	Total value to consumers	Output	Demand price	Total receipts	Marginal receipts
1 2 3 4 5 6 7 8 9 10	£ s. 31 5 29 0 27 0 25 5 23 15 22 10 20 15 20 0 20 0 20 5	£ s. 31 5 58 0 81 0 101 0 118 15 135 0 150 10 166 0 182 5 200 0 220 0 243 0	£ s. 31 5 26 15 23 0 20 0 17 15 16 5 15 10 16 5 17 15 20 0 23 0	1 2 3 4 5 6 6 7 8 9 10 11 12	£ 20 20 20 20 20 20 20 20 20 20 20 20 20	£ 20 40 60 80 100 120 140 160 180 200 220 240	£ 20 20 20 20 20 20 20 20 20 20 20 20 20	1 2 3 4 5 6 7 8 9 10 11 12	£ 29 28 27 26 25 24 23 22 21 20 19 18	£ 29 56 81 104 125 144 161 176 189 200 209 216	£ 29 27 25 1 23 21 19 17 15 13 11 9 7	1 2 3 4 5 6 7 8 9 10 11 12	£ 20 20 20 20 20 20 20 20 19 18	£ 20 40 60 80 100 120 140 160 180 200 209 216	6 00 00 00 00 00 00 00 00 00 00 00 00 00	1 2 3 4 4 5 6 6 7 8 9 10 11 12	£ 25 24 23 22 21 20 19 18 17 16 15 14	£ 25 48 69 88 105 120 133 144 153 160 165	£ 25 23 21 19 17 15 13 11 9 7 5 3	£ 25 49 72 94 115 135 154 172 189 205 220 234	1 2 3 4 5 6 7 8 9 10 11 12	£ 17 17 17 17 17 17 16 15 14	£ 17	Maximum Price of £17 effective.
13 14 15 16 17	20 15 21 10 22 10 23 15 25 5	269 15 301 0 337 10 380 0 429 5	26 15 31 5 36 10 42 10 49 5	13 14 15 16 17	20 20 20 20 20	260 280 300 320 340	20 20 20 20 20 20	13 14 15 16 17	17 16 15 14 13	221 224 225 224 221	5 3 1 -1 -3	13 14 15 16 17	17 16 15 14 13	22 I 224 225 224 22 I	5 3 1 -1 -3	13 14 15 16 17	13 12 11 10 9	169 168 165 160 153	-1 -3 -5 -7	247 259 270 280 289	13 14 15 16	13 12 11 10	169 168 165 160 153	-1 -3 -5 -7

Table 1. The Cost Conditions of a Single Firm.

Table 2 (a). The Demand for the Output of a Single Firm. Perfect Competition.

Table 2 (b). The Demand for the Output of a Single Firm. Imperfect Competition.

TABLE 3. The Effect of a Maximum Legal Sellingprice on the Demand shown in Table 2 (b).

g- Table 4. The Demand for the Output of a Commodity, showing its Total Value to Consumers.

Table 5. The Effect of a Maximum Legal Sellingprice on the Demand shown in Table 4.

### CHART II

ABCDEFG	ABCDE	F G	A B	C D	A B C	C D	A B C D	E F	G	A B	C   D
Employment Output Marginal product Price of product Value of marginal product Total receipts Marginal value of labour	Employment Output Marginal product Price of product Value of	Total receipts  Marginal  value of labour	Employment Wage-rate	Wage-bill Marginal wage-cost	Employment Wage-rate Wage-bill	Marginal wage-cost	Employment Output Marginal product Price of	Value of marginal product	Marginal value of Iabour	Employment Wage-rate	Wage-bill Marginal wage-cost
18     708      2      70 16        19     760     52     2     5 4     76 0     5 4       20     810     50     2     5 0     81 0     5 0       21     858     48     2     4 16     85 16     4 16       22     904     46     2     4 12     90 8     4 12       23     948     44     2     4 8     94 16     4 8       24     990     42     2     4 4     99 0     4 4       25     1,068     38     2     3 16     106 16     3 16       27     1,104     36     2     3 12     110 8     3 12       28     1,138     34     2     3     113 16     3 8       29     1,170     32     2     3     4     117 0     3 4       30     1,200     30     2     3     120 0     3     0       31     1,228     28     2     2     16     122 16     2     16       32     1,254     26     2     2     12     125 8     2     12	28   1,18   34   2 2   3 13 8   29   1,10   32   2 1   3 6 8   30   1,20   30   2 0   3 0   0   31   1,28   28   1 11   2 13 8	106	18 3 19 3 20 3 21 3 22 3 23 3 24 3 25 3 26 3 27 3 28 3 29 3 30 3 31 3 32 3	£ £ 54 57 3 60 3 66 3 66 3 72 3 78 3 81 3 84 3 84 3 90 3 93 3 96 3	18         12         10           19         16         15           20         1         0         20           21         1         4         25           22         1         8         30           23         1         12         36           24         1         16         43           25         2         0         50           26         2         4         57           27         2         8         64           28         2         12         72           29         2         16         81           30         3         0         90           31         3         4         99	0 6 16 4 7 4 16 7 12 16 8 0 4 8 8 0 8 16	18     708      2     0       19     760     52     2     0       20     810     50     2     0       21     858     48     2     0       22     904     46     2     0       23     948     44     2     0       25     1,030     40     2     0       26     1,068     38     2     0       27     1,104     36     2     0       28     1,138     34     2     0       29     1,170     32     2     0       30     1,200     30     2     0       31     1,228     28     1     1	4 12 0   90 8 0   4 8 0   94 16 0   4 4 0   99 0 0   4 0 0   103 0 0   3 16 0   106 16 0   3 12 0   110 8 0   3 8 0   113 16 0   3 4 0   117 0 0   3 0 0   120 0 0	4 16 0 4 4 6 0 0 4 4 6 0 0 0 0 0 0 0 0 0 0	18   3   0   19   3   0   20   3   0   21   3   0   22   3   0   22   3   0   24   3   0   25   3   0   26   3   0   26   3   0   27   3   0   28   3   0   29   3   0   31   3   4   32   3   8	£ s. £ s. 54 0 3 0 57 0 3 0 60 0 3 0 66 0 3 0 66 0 3 0 72 0 3 0 78 0 3 0 78 0 3 0 84 0 3 0 84 0 3 0 90 0 3 0 99 4 9 4 108 16 9 12

Table 6 (a). The Demand for Labour by a Single Firm.

Perfect Competition in the Sale of the Product.

Table 6 (b). The Demand for Labour by a Single Firm. Imperfect Competition in the Sale of the Product.

Table 7 (a). The Supply of Labour to a Single Firm. Perfect Competition in the Hire of Labour.

of Table 7 (b). The Supply of
Labour to a Single Firm. Imperfect Competition in the Hire
of Labour.

Table 8. The Effect of a Maximum Legal Commodity Price on the Demand for Labour shown in Table 6 (b).

TABLE 9. The Effect of a Minimum Legal Wage-rate on the Supply of Labour shown in Table 7 (b).