BUSINESS ADMINISTRATION

BY LEON CARROLL MARSHALL



THE UNIVERSITY OF CHICAGO PRESS CHICAGO, ILLINOIS

PREFACE

Collegiate training for business administration is now so widely attempted that the time has arrived when experiments should be conducted looking toward the organization of the business curriculum into a coherent whole. Training in scattered "business subjects" was defensible enough in the earlier days of collegiate business training, but such a method cannot be permanent. It must yield to a more comprehensive organization.

There can be no doubt that many experiments will be conducted looking toward this goal; they are, indeed, already under way. This series, "Materials for the Study of Business," marks one stage in such an experiment in the School of Commerce and Administration of the University of Chicago.

It is appropriate that the hypotheses on which this experiment is being conducted be set forth. In general terms the reasoning back of the experiment runs as follows: The business executive administers his business under conditions imposed by his environment, both physical and social. The student should accordingly have an understanding of the physical environment. This justifies attention to the earth sciences. He should also have an understanding of the social environment and must accordingly give attention to civics, law, economics, social psychology, and other branches of the social sciences. His knowledge of environment should not be too abstract in character. It should be given practical content, and should be closely related to his knowledge of the internal problems of management. This may be accomplished through a range of courses dealing with business administration wherein the student may become acquainted with such matters as the measuring aids of control, the communicating aids of control, organization policies and methods: the manager's relation to production, to labor, to finance, to technology, to risk-bearing, to the market, to social control, etc. Business is, after all, a pecuniarily organized scheme of gratifying human wants, and, properly understood, falls little short of being as broad, as inclusive, as life itself in its motives, aspirations, and social obligations. little short of being as broad as all science in its technique. for the task of the business administrator must have breadth and depth comparable with those of the task.

BASIC ELEMENTS OF THE BUSINESS CURRICULUM

- Of problems of adjustment to physical environment
 - a) The earth sciences
 - b) The manager's relationship to these

Of problems of technology

- a) Physics through mechanics, basic, and other sciences as appropriate
- b) The manager's administration of production

Of problems of finance

- a) The financial organization of society
- b) The manager's administration of finance
- Of problems connected with the market
 - a) Market functions and market structure
 - b) The manager's administration of marketing (including purchasing and traffic)
- Of problems of risk and riskbearing
 - a) The risk aspects of modern industrial society
 - b) The manager's administration of risk-bearing

Of problems of personnel

- a) The position of the worker in modern industrial society
- b) The manager's administration of personnel
- Of problems of adjustment to social environment
 - a) The historical background
 - b) The socio-economic institutional life
 - c) Business law and government

CONTROL

- Communicating aids of control, for example
 - a) English
 - b) Foreign language
- 2. Measuring aids of control, for example
 - a) Mathematics
 - b) Statistics and accounting
- 3. Standards and practices of control
 - a) Psychology
 - b) Organization policies and methods

PREFACE ix

Stating the matter in another way, the modern business administrator is essentially a solver of business problems—problems of business policy, of organization, and of operation. These problems, great in number and broad in scope, divide themselves into certain type groups, and in each type group there are certain classes of obstacles to be overcome, as well as certain aids, or materials of solution.

If these problems are arranged (1) to show the significance of the organizing and administrative, or control, activities of the modern responsible manager, and (2) to indicate appropriate fields of training, the diagram on the opposite page (which disregards much overlapping and interacting) results. It sets forth the present hypothesis of the School of Commerce and Administration concerning the basic elements of the business curriculum, covering both secondary school and collegiate work.

In this curriculum the present volume is designed to serve as part of a general introduction. It is used as the basic material in a beginner's course in Business Administration. This course parallels another dealing with the physical environment of business and follows still another which considers social environment. The three courses thus constitute a survey of the physical and social environments of business and a general analysis of the outstanding relationships of the business administrator.

In its scheme of presentation I think of this volume as being made up of four parts. Chapter i, a very brief first part, presents a general view of the field of study and a certain mental attitude toward the field. Because I have no better term for this mental attitude, I call it a functional approach to the study of business administration. Chapter ii, a somewhat longer second part, examines a business problem—that of plant location—as a means of giving the student confidence in the analysis of business problems which is sketched rather abstractly in the first chapter and as a means of inducing him to think of the outstanding relationships of the administrator as highly interdependent activites.

Chapters iii-ix form a rather bulky third part of the book. Here, one after another of the functions of the business administrator is discussed, with particular reference to the character of the problems involved and to the control policies and devices of the manager. The reader will find that the book is a "what and why" book rather than a "how" book. It is not a manual of technical

practices and devices in business. It is an attempt to see the problems of business administration as an interrelated whole and to indicate the lines of study which will presumably lead to solution of those problems.

Chapter x, the brief fourth part, presents in moderate detail a "business case" for the student to analyze. It is a sort of an acid test of his earlier study.

From the point of view of teaching technique, this study of business administration is worked out through what is called, again for lack of a better name, the discussion method. Questions, problems, and cases are the tools of the discussion method and all are employed in this book.

Some ways of using these tools may be illustrated as follows: If a class were given an ordinary textual reading on plant location and the class meeting were conducted by asking such questions as, "What are the more important factors in cotton mill location?" it would be possible, at least, to get a discussion started among members of the class, although it must be admitted that the meeting might degenerate into formal routine questioning and answering. If, on the other hand, the class were given a full account of the procedure followed by the Spinwell Company in determining an appropriate location for its new plant, we could readily have a discussion participated in by the students as a result of their analysis of this case material. Case study by students presumes a knowledge at the outset of the main factors to be considered. The questioning on the part of the instructor would almost necessarily go deeper into the matter than routine questioning and answering. The student would be almost certain to carry away a more vivid appreciation of the issues at stake, because in the case method the mind is aroused to activity to piece together related facts in order to find new meaning in them.

A third possible tool of the discussion method is the problem, and this may be of almost any grade of severity and may of course be combined with case material. If, for example, the Spinwell Company case contained an analysis of several possible locations without reaching a conclusion on more than one, the class discussion might well analyze the correctness of this conclusion or might be directed toward listing in order of preference the three most desirable locations, giving reasons for the order chosen. This would probably be a problem of only moderate severity if the case were well written

PREFACE xi

up. A more severe problem could be set by asking the class to determine whether a certain location, not mentioned in the case, would not have been still better than the one chosen. Now the students must presumably secure new data concerning this new location as their first step in solving the problem. This brings in of course a new opportunity for mental discipline.

As the present book is designed for use in an introductory course surveying the whole field of business administration, it does not include advanced problems. It embodies, none the less, a case and problem approach, and its emphasis is on the case and problem method, although as a transitional collection it has been thought wise to include enough material and questions of the more routine sort to enable the instructor to adapt his teaching method to the stage of maturity and preparation of individual students and classes. The final chapter—in my mind the most interesting bit of teaching method in the book—is a "case" of rather wide reach. It has been my experience that Freshmen can and do handle this case reasonably well at the close of the course: a stimulating hint of the possibilities for more advanced courses.

Perhaps it is worth adding that there is no question that these possibilities can be realized. For more than a decade the group with which I am so fortunate as to be working has been developing a case-and-problem presentation of economics and business subjects. We find the method particularly well adapted to our intermediate and advanced courses, and much of our instruction in these fields is now on the case-and-problem basis. This of course does not mean that the lecture and the textbook do not have an appropriate place in instruction.

It will be noticed that no effort has been made to give exhaustive bibliographies. It has seemed sufficient in an introductory survey, to suggest at the end of each chapter a few references for further study. The most modest library can meet the demand thus made.

It is hardly possible for me to give appropriate recognition of the assistance I have received from many sources during the preparation of this material. It has passed through three mimeographed editions. two pamphlet editions, and a "preliminary" edition to its present form. During this rather lengthy period of preparation criticisms and suggestions have flowed in from almost every member of the group with which I am most closely associated as well as from many other collegiate instructors. My debt to authors and publishers who

have so kindly consented to the use of their material is equally great. I must mention particularly the assistance of Walter Smith, Ruth Reticker, Mildred Janovsky, May Freedman, and Dorothea Schmidt in gathering material and the kindness of Professor C. O. Hardy in preparing the chapter on "The Administration of Risk-Bearing."

A conscientious effort has been made to give credit where credit was due. I am quite certain, however, that many questions have been taken from sources whose origin has been forgotten in the long period of preparation. General acknowledgment of this indebtedness is here given.

L. C. MARSHALL

University of Chicago September 1, 1921 COPYRIGHT 1921 BY THE UNIVERSITY OF CHICAGO ALL RIGHTS RESERVED. PUBLISHED DECEMBER 1921 ELEVENTH IMPRESSION SEPTEMBER 1935

COMPOSED AND PRINTED BY THE UNIVERSITY OF CHICAGO PRESS CHICAGO, ILLINOIS, U.S.A.

TABLE OF CONTENTS

CHAPTER I. THE FIELD OF BUSINESS ADMINISTRATION	PAGE
	_
The Many Forms of Economic Activity (Diagram) The Zones of Business Control	2
A Descriptive Classification of Business Activities	3
	4
A More Analytical Classification of Business Activities	7
A Functional Classification of Business Activities	10
Administration a Phase of the Co-ordination of Specialists.	16
Problems	20
CHAPTER II. A SAMPLE BUSINESS PROBLEM—PLANT LOCATION	
A. Conditions Determining Location in Terms of Broad Areas—	
Territorial Specialization	
Introduction and Problems	23
1. A General Survey of Location Forces. E. A. Ross	28
2. Transportation Facilities in Relation to Location. A. T.	
Hadley	33
3. The Momentum of an Early Start and the Habit of	•
Industrial Imitation. Bureau of the Census	35
4. Some Economic Advantages of Specialized Centers.	0.5
Henry Clay	37
5. The Location of the Cotton Manufacturing Industry.	51
M. T. Copeland	38
6. Local Concentration of Certain Industries. Bureau of	3-
the Census	45
7. The Location of the Manufacturing Industries of the	43
United States. Bureau of the Census	48
8. Illustrations of Concentration and Dispersion. Bureau	40
of the Census	49
9. The Seats of Great Commercial Enterprises. J. R.	49
Smith	50
10. The Location of the Wholesale Dry-Goods Trade.	50
P. T. Cherington	56
11. London and New York as Financial Centers. E. L. S.	50
	- O
Patterson	58
B. Factors Determining Location in Subareas—Site Location	
Introduction and Problems	62
12. Geographical Specialization by Small Areas and the	_
Sections of Cities. C. C. Evers.	64
13 The Location of Retail Establishments. P. H. Nystrom	66

	PAGE
14. Site Location Considerations. C. C. Evers	71
15. An Outline of the Relations of Transportation to Site	
Location. F. M. Simons, Jr	74
16. The Interdependence of Construction and Equipment	
with Site Location. Charles Day	76
17. City, Suburbs, or Country. D. S. Kimball	79
18. Satellite Cities. G. R. Taylor	80
19. The Causes of Congestion of Manufactures in New	
York City. P. T. Sherman	84
C. Changing Location and Location Planning	
Introduction and Problems	90
20. How to Strike a Balance in Location Factors. H. V.	,
Coes	93
21. An Example of Private Enterprise in Developing Plant	70
Locations. Central Manufacturing District	96
22. Another Example—the Bush Terminal	101
23. Still Another Example—the Toledo Factories Buildings.	
Iron Age	105
24. Examples of City Advertising	- 3
A. Philadelphia Year-Book	106
B. Advertisement in a Business Periodical	108
25. What City Planning Means. Niagara Falls Chamber of	
Commerce	100
26. The City-Planning Movement. C. M. Robinson	111
CHAPTER III. THE ADMINISTRATION OF PERSONNEL	
A. Introductory Survey of the Content of the Manager's	
Relationship to Personnel	
Introduction and Problems	115
r. Organization of the Personnel Department. Ordway	
Tead and H. C. Metcalf	118
2. Functions of the Personnel Department. C. H. Fen-	
stermacher	124
3. Another Statement of Functions. R. W. Kelly	126
B. Personnel Administration in Terms of Incentive and Out-	
put: Good Physical Conditions and Competent Human	
Machines	
Introduction and Prob'ems	127
4. Some Causes of Inefficiency in Modern Industry. F. E.	
Cardullo	132
5. Physical Conditions of Work and Accident Prevention.	
L. K. Frankel and Alexander Fleisher	136
6. Prevention of Occupational Disease. L. K. Frankel	
J - 4 I J T2 I -2 - I	٥

TABLE OF CONTENTS
The Maintenance of Dhymical Fitness Hulled Clates
7. The Maintenance of Physical Fitness. United States
Public Health Service
8. Physical Examination of Workers. J. W. Schere-schewsky
schewsky
10. Education and Training
A. The Industrial Information Service
B. C. R. Allen
C. Personnel Administration in Terms of Incentive and Out-
put: the Will to Do
Introduction and Problems
11. The Fears of Labor and of Capital. W. L. M. King .
12. The Gulf between Labor and Capital. L. P. Alford .
13. The Instincts and Motivation. C. H. Parker
14. The Release of Human Energy. A. D. Weeks
15. Wage Incentive: Forms of Payment. G. D. H. Cole .
16. Wage Incentive: A Philosophy of Management. C. B.
Going
17. Wage Incentive: A Wage Formula. G. D. Babcock.
18. Wage Incentive: What Are Fair Wages?
A. W. R. Bassett
B
19. Profit Sharing: Its Forms. U.S. Bureau of Labor
Statistics, and Mallory, Mitchell. and Faust
20. The Three-Position Plan of Promotion. F. B. Gilbreth
and L. M. Gilbreth
21. Employees' Representation
A. Definition. Independence Bureau
B. An Extreme Case. A Suggested Plan for a Con- ference Committee on Industrial Relationships
C. Another Case. National Metal Trades Association
D. Measuring Aids of Personnel Administration
Introduction and Problems
23. How Industrial Fatigue May Be Detected. United
States Public Health Service
25. Some Sample Analyses and Descriptions of Occupations
25. Some Sample Analyses and Descriptions of Occupations
A. Curtis Publishing Company
B. Emergency Fleet Corporation
27. Methods in Vocational Testing. H. L. Hollingworth.
28. Army Intelligence Tests and Trade Tests. Beardsley
Ruml
1541100

29. What Phrenology and Physiognomy Can Contribute. H. L. Hollingworth 30. The Application Blank as a Measuring Device. R. W. Kelly 31. The Interview as a Measuring Device. R. W. Kelly 32. Some Aspects of Rating Scales. R. W. Kelly 33. The Labor Audit. Ordway Tead E. Organization and Administration of the Personnel Department Introduction and Problems 34. The Case for a Centralized Personnel Department. S. H. Slichter 35. The Place of the Personnel Department in the Business Organization. Ordway Tead and H. C. Metcalf 36. Organization Chart of Personnel Work in One Industrial Plant CHAPTER IV. THE ADMINISTRATION OF MARKET PROBLEMS A. The Knitting Together of Modern Specialists. L. C. Marshall and L. S. Lyon Problems B. Market Forces, Marketing Functions, and Market Structures Introduction and Problems 1. The Forces behind Modern Market Structures 2. Marketing Functions. L. D. H. Weld 3. Methods of Sale and Advertising A. A. W. Shaw B. Johnson, Read & Company 4. Conditions Which May Result in Organized Markets. Alfred Marshall 5. Leading Wholesale Agencies. M. T. Copeland 6. Marketing Agencies between Manufacturer and Jobber. L. D. H. Weld 7. The Use Made of the Jobber. P. H. Nystrom 8. Leading Retail Agencies. M. T. Copeland 9. The Mail-Order Business. R. S. Butler, H. F. De Bower, and J. G. Jones 10. The Local Retailer's Answer to Mail-Order Competition. Northwestern Druggist 11. Some Characteristics of the Department Store. P. H. Nystrom 12. The Origins of the Chain Store. P. H. Nystrom		
30. The Application Blank as a Measuring Device. R. W. Kelly 31. The Interview as a Measuring Device. R. W. Kelly 32. Some Aspects of Rating Scales. R. W. Kelly 33. The Labor Audit. Ordway Tead 5. Organization and Administration of the Personnel Department Introduction and Problems 34. The Case for a Centralized Personnel Department. S. H. Slichter 35. The Place of the Personnel Department in the Business Organization. Ordway Tead and H. C. Metcalf 36. Organization Chart of Personnel Work in One Industrial Plant CHAPTER IV. THE ADMINISTRATION OF MARKET PROBLEMS A. The Knitting Together of Modern Spec alists. L. C. Marshall and L. S. Lyon Problems B. Market Forces, Marketing Functions, and Market Structures Introduction and Problems 1. The Forces behind Modern Market Structures 2. Marketing Functions. L. D. H. Weld 3. Methods of Sale and Advertising A. A. W. Shaw B. Johnson, Read & Company 4. Conditions Which May Result in Organized Markets. Alfred Marshall 5. Leading Wholesale Agencies. M. T. Copeland 6. Marketing Agencies between Manufacturer and Jobber. L. D. H. Weld 7. The Use Made of the Jobber. P. H. Nystrom 8. Leading Retail Agencies. M. T. Copeland 9. The Mail-Order Business. R. S. Buller, H. F. De Bower, and J. G. Jones 10. The Local Retailer's Answer to Mail-Order Competition. Northwestern Druggist 11. Some Characteristics of the Department Store. P. H. Nystrom 12. The Manufacturer and the Department Store. R. W. Johnson		
Xelly 31. The Interview as a Measuring Device. **R. W. Kelly** 32. Some Aspects of Rating Scales. **R. W. Kelly** 33. The Labor Audit. **Ordway Tead** E. Organization and Administration of the Personnel Department Introduction and Problems* 34. The Case for a Centralized Personnel Department. **S. H. Slichter** 35. The Place of the Personnel Department in the Business Organization. **Ordway Tead and H. C. Metcalf** 36. Organization Chart of Personnel Work in One Industrial Plant** **CHAPTER IV.** THE ADMINISTRATION OF MARKET PROBLEMS** A. The Knitting Together of Modern Specialists. **L. C. Marshall and L. S. Lyon** Problems** B. Market Forces, Marketing Functions, and Market Structures Introduction and Problems** 1. The Forces behind Modern Market Structures** 2. Marketing Functions. **L. D. H. Weld** 3. Methods of Sale and Advertising A. **A. W. Shaw** B. Johnson, Read & Company** 4. Conditions Which May Result in Organized Markets. **Alfred Marshall** 5. Leading Wholesale Agencies. **M. T. Copeland** 6. Marketing Agencies between Manufacturer and Jobber. **L. D. H. Weld** 7. The Use Made of the Jobber. **P. H. Nystrom** 8. Leading Retail Agencies. **M. T. Copeland** 9. The Mail-Order Business. **R. S. Buller, H. F. De Bower, and J. G. Jones** 10. The Local Retailer's Answer to Mail-Order Competition. **Northwestern Druggist** 11. Some Characteristics of the Department Store. **P. H. Nystrom** 12. The Manufacturer and the Department Store. **R. W. Johnson**		H. L. Hollingworth
32. Some Aspects of Rating Scales. R. W. Kelly 33. The Labor Audit. Ordway Tead E. Organization and Administration of the Personnel Department Introduction and Problems 34. The Case for a Centralized Personnel Department. S. H. Slichter 35. The Place of the Personnel Department in the Business Organization. Ordway Tead and H. C. Metcalf 36. Organization Chart of Personnel Work in One Industrial Plant CHAPTER IV. THE ADMINISTRATION OF MARKET PROBLEMS A. The Knitting Together of Modern Spec alists. L. C. Marshall and L. S. Lyon Problems B. Market Forces, Marketing Functions, and Market Structures Introduction and Problems 1. The Forces behind Modern Market Structures 2. Marketing Functions. L. D. H. Weld 3. Methods of Sale and Advertising A. A. W. Shaw B. Johnson, Read & Company 4. Conditions Which May Result in Organized Markets. Alfred Marshall 5. Leading Wholesale Agencies. M. T. Copeland 6. Marketing Agencies between Manufacturer and Jobber. L. D. H. Weld 7. The Use Made of the Jobber. P. H. Nystrom 8. Leading Retail Agencies. M. T. Copeland 9. The Mail-Order Business. R. S. Buller, H. F. De Bower, and J. G. Jones 10. The Local Retailer's Answer to Mail-Order Competition. Northwestern Druggist 11. Some Characteristics of the Department Store. P. H. Nystrom 12. The Manufacturer and the Department Store. R. W. Johnson		
32. Some Aspects of Rating Scales. R. W. Kelly 33. The Labor Audit. Ordway Tead E. Organization and Administration of the Personnel Department Introduction and Problems 34. The Case for a Centralized Personnel Department. S. H. Slichter 35. The Place of the Personnel Department in the Business Organization. Ordway Tead and H. C. Metcalf 36. Organization Chart of Personnel Work in One Industrial Plant CHAPTER IV. THE ADMINISTRATION OF MARKET PROBLEMS A. The Knitting Together of Modern Spec alists. L. C. Marshall and L. S. Lyon Problems B. Market Forces, Marketing Functions, and Market Structures Introduction and Problems 1. The Forces behind Modern Market Structures 2. Marketing Functions. L. D. H. Weld 3. Methods of Sale and Advertising A. A. W. Shaw B. Johnson, Read & Company 4. Conditions Which May Result in Organized Markets. Alfred Marshall 5. Leading Wholesale Agencies. M. T. Copeland 6. Marketing Agencies between Manufacturer and Jobber. L. D. H. Weld 7. The Use Made of the Jobber. P. H. Nystrom 8. Leading Retail Agencies. M. T. Copeland 9. The Mail-Order Business. R. S. Buller, H. F. De Bower, and J. G. Jones 10. The Local Retailer's Answer to Mail-Order Competition. Northwestern Druggist 11. Some Characteristics of the Department Store. P. H. Nystrom 12. The Manufacturer and the Department Store. R. W. Johnson		31. The Interview as a Measuring Device. R. W. Kelly.
E. Organization and Administration of the Personnel Department Introduction and Problems 34. The Case for a Centralized Personnel Department. S. H. Slichter 35. The Place of the Personnel Department in the Business Organization. Ordway Tead and H. C. Metcalf 36. Organization Chart of Personnel Work in One Industrial Plant CHAPTER IV. THE ADMINISTRATION OF MARKET PROBLEMS A. The Knitting Together of Modern Spec alists. L. C. Marshall and L. S. Lyon Problems B. Market Forces, Marketing Functions, and Market Structures Introduction and Problems 1. The Forces behind Modern Market Structures 2. Marketing Functions. L. D. H. Weld 3. Methods of Sale and Advertising A. A. W. Shaw B. Johnson, Read & Company 4. Conditions Which May Result in Organized Markets. Alfred Marshall 5. Leading Wholesale Agencies. M. T. Copeland 6. Marketing Agencies between Manufacturer and Jobber. L. D. H. Weld 7. The Use Made of the Jobber. P. H. Nystrom 8. Leading Retail Agencies. M. T. Copeland 9. The Mail-Order Business. R. S. Butler, H. F. De Bower, and J. G. Jones 10. The Local Retailer's Answer to Mail-Order Competition. Northwestern Druggist 11. Some Characteristics of the Department Store. P. H. Nystrom 12. The Manufacturer and the Department Store. R. W. Johnson		32. Some Aspects of Rating Scales. R. W. Kelly
ment Introduction and Problems 34. The Case for a Centralized Personnel Department. S. H. Slichter. 35. The Place of the Personnel Department in the Business Organization. Ordway Tead and H. C. Metcalf 36. Organization Chart of Personnel Work in One Industrial Plant CHAPTER IV. THE ADMINISTRATION OF MARKET PROBLEMS A. The Knitting Together of Modern Spec alists. L. C. Marshall and L. S. Lyon Problems B. Market Forces, Marketing Functions, and Market Structures Introduction and Problems 1. The Forces behind Modern Market Structures 2. Marketing Functions. L. D. H. Weld 3. Methods of Sale and Advertising A. A. W. Shaw B. Johnson, Read & Company 4. Conditions Which May Result in Organized Markets. Alfred Marshall 5. Leading Wholesale Agencies. M. T. Copeland 6. Marketing Agencies between Manufacturer and Jobber. L. D. H. Weld 7. The Use Made of the Jobber. P. H. Nystrom 8. Leading Retail Agencies. M. T. Copeland 9. The Mail-Order Business. R. S. Buller, H. F. De Bower, and J. G. Jones 10. The Local Retailer's Answer to Mail-Order Competition. Northwestern Druggist 11. Some Characteristics of the Department Store. P. H. Nystrom 12. The Manufacturer and the Department Store. R. W. Johnson		33. The Labor Audit. Ordway Tead
Introduction and Problems 34. The Case for a Centralized Personnel Department. S. H. Slichter. 35. The Place of the Personnel Department in the Business Organization. Ordway Tead and H. C. Metcalf. 36. Organization Chart of Personnel Work in One Industrial Plant. CHAPTER IV. THE ADMINISTRATION OF MARKET PROBLEMS A. The Knitting Together of Modern Specialists. L. C. Marshall and L. S. Lyan. Problems B. Market Forces, Marketing Functions, and Market Structures Introduction and Problems 1. The Forces behind Modern Market Structures 2. Marketing Functions. L. D. H. Weld 3. Methods of Sale and Advertising A. A. W. Shaw B. Johnson, Read & Company 4. Conditions Which May Result in Organized Markets. Alfred Marshall 5. Leading Wholesale Agencies. M. T. Copeland 6. Marketing Agencies between Manufacturer and Jobber. L. D. H. Weld 7. The Use Made of the Jobber. P. H. Nystrom 8. Leading Retail Agencies. M. T. Copeland 9. The Mail-Order Business. R. S. Buller, H. F. De Bower, and J. G. Jones 10. The Local Retailer's Answer to Mail-Order Competition. Northwestern Druggist 11. Some Characteristics of the Department Store. P. H. Nystrom 12. The Manufacturer and the Department Store. R. W. Johnson	\mathbf{E} .	Organization and Administration of the Personnel Depart-
34. The Case for a Centralized Personnel Department. S. H. Slichter		
S. H. Slichter. 35. The Place of the Personnel Department in the Business Organization. Ordway Tead and H. C. Metcalf. 36. Organization Chart of Personnel Work in One Industrial Plant. CHAPTER IV. THE ADMINISTRATION OF MARKET PROBLEMS A. The Knitting Together of Modern Spec alists. L. C. Marshall and L. S. Lyon. Problems B. Market Forces, Marketing Functions, and Market Structures Introduction and Problems 1. The Forces behind Modern Market Structures 2. Marketing Functions. L. D. H. Weld 3. Methods of Sale and Advertising A. A. W. Shaw B. Johnson, Read & Company 4. Conditions Which May Result in Organized Markets. Alfred Marshall 5. Leading Wholesale Agencies. M. T. Copeland 6. Marketing Agencies between Manufacturer and Jobber. L. D. H. Weld 7. The Use Made of the Jobber. P. H. Nystrom 8. Leading Retail Agencies. M. T. Copeland 9. The Mail-Order Business. R. S. Butler, H. F. De Bower, and J. G. Jones 10. The Local Retailer's Answer to Mail-Order Competition. Northwestern Druggist 11. Some Characteristics of the Department Store. P. H. Nystrom 12. The Manufacturer and the Department Store. R. W. Johnson		Introduction and Problems
35. The Place of the Personnel Department in the Business Organization. Ordway Tead and H. C. Melcalf. 36. Organization Chart of Personnel Work in One Industrial Plant		
Organization. Ordway Tead and H. C. Metcalf 36. Organization Chart of Personnel Work in One Industrial Plant CHAPTER IV. THE ADMINISTRATION OF MARKET PROBLEMS A. The Knitting Together of Modern Specialists. L. C. Marshall and L. S. Lyon Problems B. Market Forces, Marketing Functions, and Market Structures Introduction and Problems I. The Forces behind Modern Market Structures 2. Marketing Functions. L. D. H. Weld 3. Methods of Sale and Advertising A. A. W. Shaw B. Johnson, Read & Company 4. Conditions Which May Result in Organized Markets. Alfred Marshall 5. Leading Wholesale Agencies. M. T. Copeland 6. Marketing Agencies between Manufacturer and Jobber. L. D. H. Weld 7. The Use Made of the Jobber. P. H. Nystrom 8. Leading Retail Agencies. M. T. Copeland 9. The Mail-Order Business. R. S. Butler, H. F. De Bower, and J. G. Jones 10. The Local Retailer's Answer to Mail-Order Competition. Northwestern Druggist 11. Some Characteristics of the Department Store. P. H. Nystrom 12. The Manufacturer and the Department Store. R. W. Johnson		S. H. Slichter
36. Organization Chart of Personnel Work in One Industrial Plant		
Plant CHAPTER IV. THE ADMINISTRATION OF MARKET PROBLEMS A. The Knitting Together of Modern Specialists. L. C. Marshall and L. S. Lyon Problems B. Market Forces, Marketing Functions, and Market Structures Introduction and Problems 1. The Forces behind Modern Market Structures 2. Marketing Functions. L. D. H. Weld 3. Methods of Sale and Advertising A. A. W. Shaw B. Johnson, Read & Company 4. Conditions Which May Result in Organized Markets. Alfred Marshall 5. Leading Wholesale Agencies. M. T. Copeland 6. Marketing Agencies between Manufacturer and Jobber. L. D. H. Weld 7. The Use Made of the Jobber. P. H. Nystrom 8. Leading Retail Agencies. M. T. Copeland 9. The Mail-Order Business. R. S. Butler, H. F. De Bower, and J. G. Jones 10. The Local Retailer's Answer to Mail-Order Competition. Northwestern Druggist 11. Some Characteristics of the Department Store. P. H. Nystrom 12. The Manufacturer and the Department Store. R. W. Johnson		
A. The Knitting Together of Modern Specialists. L. C. Marshall and L. S. Lyon. Problems B. Market Forces, Marketing Functions, and Market Structures Introduction and Problems 1. The Forces behind Modern Market Structures 2. Marketing Functions. L. D. H. Weld 3. Methods of Sale and Advertising A. A. W. Shaw B. Johnson, Read & Company 4. Conditions Which May Result in Organized Markets. Alfred Marshall 5. Leading Wholesale Agencies. M. T. Copeland 6. Marketing Agencies between Manufacturer and Jobber. L. D. H. Weld 7. The Use Made of the Jobber. P. H. Nystrom 8. Leading Retail Agencies. M. T. Copeland 9. The Mail-Order Business. R. S. Butler, H. F. De Bower, and J. G. Jones 10. The Local Retailer's Answer to Mail-Order Competition. Northwestern Druggist 11. Some Characteristics of the Department Store. P. H. Nystrom 12. The Manufacturer and the Department Store. R. W. Johnson		
A. The Knitting Together of Modern Specialists. L. C. Marshall and L. S. Lyon		
Marshall and L. S. Lyon	Снарт	ER IV. THE ADMINISTRATION OF MARKET PROBLEMS
Marshall and L. S. Lyon	Α.	The Knitting Together of Modern Specialists. L. C.
Problems B. Market Forces, Marketing Functions, and Market Structures Introduction and Problems 1. The Forces behind Modern Market Structures 2. Marketing Functions. L. D. H. Weld 3. Methods of Sale and Advertising A. A. W. Shaw B. Johnson, Read & Company 4. Conditions Which May Result in Organized Markets. Alfred Marshall 5. Leading Wholesale Agencies. M. T. Copeland 6. Marketing Agencies between Manufacturer and Jobber. L. D. H. Weld 7. The Use Made of the Jobber. P. H. Nystrom 8. Leading Retail Agencies. M. T. Copeland 9. The Mail-Order Business. R. S. Butler, H. F. De Bower, and J. G. Jones 10. The Local Retailer's Answer to Mail-Order Competition. Northwestern Druggist 11. Some Characteristics of the Department Store. P. H. Nystrom 12. The Manufacturer and the Department Store. R. W. Johnson		
Introduction and Problems 1. The Forces behind Modern Market Structures 2. Marketing Functions. L. D. H. Weld 3. Methods of Sale and Advertising A. A. W. Shaw B. Johnson, Read & Company 4. Conditions Which May Result in Organized Markets. Alfred Marshall 5. Leading Wholesale Agencies. M. T. Copeland 6. Marketing Agencies between Manufacturer and Jobber. L. D. H. Weld 7. The Use Made of the Jobber. P. H. Nystrom 8. Leading Retail Agencies. M. T. Copeland 9. The Mail-Order Business. R. S. Butler, H. F. De Bower, and J. G. Jones 10. The Local Retailer's Answer to Mail-Order Competition. Northwestern Druggist 11. Some Characteristics of the Department Store. P. H. Nystrom 12. The Manufacturer and the Department Store. R. W. Johnson		Problems
 The Forces behind Modern Market Structures Marketing Functions. L. D. H. Weld Methods of Sale and Advertising A. A. W. Shaw B. Johnson, Read & Company Conditions Which May Result in Organized Markets. Alfred Marshall Leading Wholesale Agencies. M. T. Copeland Marketing Agencies between Manufacturer and Jobber. L. D. H. Weld The Use Made of the Jobber. P. H. Nystrom Leading Retail Agencies. M. T. Copeland The Mail-Order Business. R. S. Butler, H. F. De Bower, and J. G. Jones The Local Retailer's Answer to Mail-Order Competition. Northwestern Druggist Some Characteristics of the Department Store. P. H. Nystrom The Manufacturer and the Department Store. R. W. Johnson 	В.	
2. Marketing Functions. L. D. H. Weld 3. Methods of Sale and Advertising A. A. W. Shaw B. Johnson, Read & Company 4. Conditions Which May Result in Organized Markets. Alfred Marshall 5. Leading Wholesale Agencies. M. T. Copeland 6. Marketing Agencies between Manufacturer and Jobber. L. D. H. Weld 7. The Use Made of the Jobber. P. H. Nystrom 8. Leading Retail Agencies. M. T. Copeland 9. The Mail-Order Business. R. S. Butler, H. F. De Bower, and J. G. Jones 10. The Local Retailer's Answer to Mail-Order Competition. Northwestern Druggist 11. Some Characteristics of the Department Store. P. H. Nystrom 12. The Manufacturer and the Department Store. R. W. Johnson		Introduction and Problems
3. Methods of Sale and Advertising A. A. W. Shaw B. Johnson, Read & Company Conditions Which May Result in Organized Markets. Alfred Marshall Leading Wholesale Agencies. M. T. Copeland Marketing Agencies between Manufacturer and Jobber. L. D. H. Weld The Use Made of the Jobber. P. H. Nystrom Leading Retail Agencies. M. T. Copeland Mail-Order Business. R. S. Butler, H. F. De Bower, and J. G. Jones The Local Retailer's Answer to Mail-Order Competition. Northwestern Druggist Mystrom Mystrom Manufacturer and the Department Store. P. H. Nystrom The Manufacturer and the Department Store. R. W. Johnson		
A. A. W. Shaw B. Johnson, Read & Company Conditions Which May Result in Organized Markets. Alfred Marshall Leading Wholesale Agencies. M. T. Copeland Marketing Agencies between Manufacturer and Jobber. L. D. H. Weld The Use Made of the Jobber. P. H. Nystrom Leading Retail Agencies. M. T. Copeland The Mail-Order Business. R. S. Butler, H. F. De Bower, and J. G. Jones To. The Local Retailer's Answer to Mail-Order Competition. Northwestern Druggist Some Characteristics of the Department Store. P. H. Nystrom The Manufacturer and the Department Store. R. W. Johnson		
B. Johnson, Read & Company 4 Conditions Which May Result in Organized Markets. Alfred Marshall 5. Leading Wholesale Agencies. M. T. Copeland 6. Marketing Agencies between Manufacturer and Jobber. L. D. H. Weld 7. The Use Made of the Jobber. P. H. Nystrom 8. Leading Retail Agencies. M. T. Copeland 9. The Mail-Order Business. R. S. Butler, H. F. De Bower, and J. G. Jones 10. The Local Retailer's Answer to Mail-Order Competition. Northwestern Druggist 11. Some Characteristics of the Department Store. P. H. Nystrom 12. The Manufacturer and the Department Store. R. W. Johnson		
4 Conditions Which May Result in Organized Markets. Alfred Marshall 5. Leading Wholesale Agencies. M. T. Copeland 6. Marketing Agencies between Manufacturer and Jobber. L. D. H. Weld 7. The Use Made of the Jobber. P. H. Nystrom 8. Leading Retail Agencies. M. T. Copeland 9. The Mail-Order Business. R. S. Buller, H. F. De Bower, and J. G. Jones 10. The Local Retailer's Answer to Mail-Order Competition. Northwestern Druggist 11. Some Characteristics of the Department Store. P. H. Nystrom 12. The Manufacturer and the Department Store. R. W. Johnson		A. A. W. Shaw
Alfred Marshall 5. Leading Wholesale Agencies. M. T. Copeland 6. Marketing Agencies between Manufacturer and Jobber. L. D. H. Weld 7. The Use Made of the Jobber. P. H. Nystrom 8. Leading Retail Agencies. M. T. Copeland 9. The Mail-Order Business. R. S. Butler, H. F. De Bower, and J. G. Jones 10. The Local Retailer's Answer to Mail-Order Competition. Northwestern Druggist 11. Some Characteristics of the Department Store. P. H. Nystrom 12. The Manufacturer and the Department Store. R. W. Johnson		
 Marketing Agencies between Manufacturer and Jobber. L. D. H. Weld 		
 Marketing Agencies between Manufacturer and Jobber. L. D. H. Weld 		Alfred Marshall
 L. D. H. Weld 7. The Use Made of the Jobber. P. H. Nystrom 8. Leading Retail Agencies. M. T. Copeland 9. The Mail-Order Business. R. S. Butler, H. F. De Bower, and J. G. Jones 10. The Local Retailer's Answer to Mail-Order Competition. Northwestern Druggist 11. Some Characteristics of the Department Store. P. H. Nystrom 12. The Manufacturer and the Department Store. R. W. Johnson 		
 7. The Use Made of the Jobber. P. H. Nystrom 8. Leading Retail Agencies. M. T. Copeland 9. The Mail-Order Business. R. S. Butler, H. F. De Bower, and J. G. Jones 10. The Local Retailer's Answer to Mail-Order Competition. Northwestern Druggist 11. Some Characteristics of the Department Store. P. H. Nystrom 12. The Manufacturer and the Department Store. R. W. Johnson 		
 Leading Retail Agencies. M. T. Copeland The Mail-Order Business. R. S. Butler, H. F. De Bower, and J. G. Jones The Local Retailer's Answer to Mail-Order Competition. Northwestern Druggist Some Characteristics of the Department Store. P. H. Nystrom The Manufacturer and the Department Store. R. W. Johnson		
 9. The Mail-Order Business. R. S. Butler, H. F. De Bower, and J. G. Jones 10. The Local Retailer's Answer to Mail-Order Competition. Northwestern Druggist 11. Some Characteristics of the Department Store. P. H. Nystrom 12. The Manufacturer and the Department Store. R. W. Johnson 		9. Leading Retail Agencies M. T. Cabeland
and J. G. Jones 10. The Local Retailer's Answer to Mail-Order Competition. Northwestern Druggist 11. Some Characteristics of the Department Store. P. H. Nystrom 12. The Manufacturer and the Department Store. R. W. Johnson		o The Mail-Order Rusiness R. S. Butler H. F. De Bower.
 10. The Local Retailer's Answer to Mail-Order Competition. Northwestern Druggist 11. Some Characteristics of the Department Store. P. H. Nystrom 12. The Manufacturer and the Department Store. R. W. Johnson Johnson		
Northwestern Druggist 11. Some Characteristics of the Department Store. P. H. Nystrom 12. The Manufacturer and the Department Store. R. W. Johnson		To. The Local Retailer's Answer to Mail-Order Competition.
Nystrom 11. Some Characteristics of the Department Store. P. H. Nystrom 12. The Manufacturer and the Department Store. R. W. Johnson		Northwestern Druggist
Nystrom		
12. The Manufacturer and the Department Store. R. W. Johnson		
Johnson		
13. The Origins of the Chain Store. P. H. Nystrom		Johnson
		13. The Origins of the Chain Store. P. H. Nystrom

TABLE OF CONTENTS	xvi i
	PAGE
14. Market Structures by Classes of Commodities. P. T.	
Cherington	2 99
15. The Middleman in Distribution. A. W. Shaw	303
16. The Break Up of the Orthodox System of Distribution.	
P. T. Cherington	306
C. Sales Management for a Manufacturing Business	
Introduction and Problems	308
17. A Brief Statement of the Marketing Problems of the	
Manufacturer. M. T. Copeland	313
18. Analysis of Product, Market, and Channels of Distribu-	
tion. Mac Martin Advertising Agency, Incorporated .	314
19. Some Phases of Market Analysis. M. T. Copeland	319
20. Some Phases of Commodity Analysis. C. C. Parlin .	323
21. Measuring Aids in Salesmen Control	
A. Printers' Ink	325
B. D. L. Kinney	328
22. Measuring Aids in Advertising Control. W. S. Zim-	
mermin	329
23. Measuring Aids Applied to the Social Environment.	
J. G. Fredericks, and F. M. Faker	331
24. Measuring Aids May Result in Expense Standards.	
Harvard Bureau of Business Research	333
25. Measuring Aids Reflected in the Profit and Loss State-	
ment. Harvard Bureau of Business Research 26. Measuring Aids, Quotas and Budgetary Control.	335
3.6 377 3.61	225
M. W. Mix	337
A. M. Burroughs	340
28. Price Policies: The Turnover. Wheeler Sammons	341
29. Price Policies: The Determination of Market Price.	34-
Jacob Viner	343
30. Price Policies of the Distributer. A. W. Shaw	347
31. Price Policies: Price Maintenance. R. H. Ingersoll and	0.,
Brothers	351
32. The Administration of Sales and Advertising. P. T.	
Cherington	352
33. An Organization of the Sales Department. Bulletin of	
the Taylor Society	354
D. The Work of the Purchasing Agent	
Introduction and Problems	362
34. The Functions of the Purchasing Department. H. B.	
Twyford	365
35. Buying for Retail Hardware Stores. H. P. Sheets	367

The state of the Company of the Department of the Company	
36. Measuring Aids: Testing in Connection with Purchasing.	
	370
37. Measuring Aids: A Sample Specification. General	277
Supply Committee, U.S. Government	371
38. Purchase and Stores under Unsystematized, Systema-	274
tized, and Scientific Management. H. P. Kendall	374
39. The Interdependence of Purchasing with Other Func-	378
tions. A. C. Ward	370
	38r
Rindsfoos	301
Western Electric Company	384
Western Electric Company	304
CHAPTER V. THE ADMINISTRATION OF FINANCE	
A. What It Means to Start and to Finance a Business	
Introduction and Problems	388
1. Steps Involved in Starting a Business. C. W. Gersten-	Ū
berg	389
2. Promotion and the Promoter. W. H. Lough	390
3. Methods of Financing an Enterprise. Francis Cooper.	392
4. Working Capital and Fixed Capital. W. H. Walker.	396
B. The Manager's Relationship to the Financial Organization	
of Society	
Introduction and Problems	398
5. A General View of the Manager's Use of Our Financial	•
Organization. H. G. Moulton	400
6. Investment Credit Institutions Used Directly by the	
Manager	
A. The Underwriters. W. H. Lough	404
B. Investment Banking and Bond Houses	
I. Lawrence Chamberlain	407
II. $W. H. Lyon$	409
7. Commercial Credit Institutions Used Directly by the	
Manager	
A. The Commercial Bank. H. G. Moulton	410
B. Note Brokers, Commercial Paper, Commercial	
Credit and Discount Companies	
I. R. P. Ettinger and D. E. Golieb	413
II. H. G. Moulton	414
8. Some Financial Information Gatherers	
A. The Mercantile Agency. R. G. Dun & Co	41
B. The National Association of Credit Men. Pamphlet	41
C. Forecasting Services S. P. Meech	120

TABLE OF CONTENTS	xix
9. An Omnibus Financial Institution, the Trust Company	PAGE
F. B. Kirkbride and J. E. Sterrett	423
10. Some Institutions Used Indirectly by the Manager	
A. Insurance Companies. A. S. Johnson	425
B. The Savings Bank. W. H. Kniffin	426
C. Stock Exchanges. F. M. Taylor	427
D. Wall Street. S. S. Pratt	428
C. Financial Policies and Occasionally Used Devices	
Introduction and Problems	429
11. The Meaning of Capital and Capitalization	433
12. Corporate Securities Viewed as Instrumentalities	
A	434
B. $W. H. Lyon$	438
13. A Classification of Stocks. J. Adams, Jr	440
14. A Sample Stock Certificate	446
14. A Sample Stock Certificate	448
16. Recitals in Bonds. Andrew Squire	450
77 A Sample Bond	4 54
18. Policies concerning the Kind and Amount of Securities.	
W. H. Lough	456
19. Some Policies with Respect to Preferred Stock. W. H.	
Lough	45 ⁸
20. Policies with Respect to Open and Closed Mortgages.	
$W, H. Walker, \dots \dots \dots \dots \dots$	460
W. H. Walker	462
22. Corporate Reorganization Policies. Stuart Daggett	465
D. Financial Policies and Frequently Used Devices	
Introduction and Problems	4 69
23. What the Balance Sheet Shows about Financial Matters.	
Paul Havener	475
24. What the Profit and Loss Statement Shows	
A. Paul Havener	482
B. Scovell, Wellington & Company	485
25. Financial Policies Reflected in Accounting Records.	
E. A. Saliers	486
26. Types of Commercial Credit Instruments. H. G.	
Moulton	488
27. Short-Term Loans and Trade Credit. W. H. Lough .	49
28. What a Bank Wishes to Know before Making a Loan.	49.
29. Borrowing by Assignment of Accounts Receivable.	
C. W. Gerstenberg,	49
30. The Meaning of Depreciation. F. A. Delano	50
31. The Sources of the Surplus. W. H. Lough	50

	PAGE
32. Reserves and Other Uses of the Surplus. F. A. Cleve-	506
land and F. W. Powell	500
Street Journal	510
E. Organization for Financial Administration	
Introduction and Problems	512
34. An Order Defining the Jurisdiction of a Treasurer.	
Walworth Manufacturing Company	515
35. Two Organization Charts on Financial Administration	518
A. New England Telephone and Telegraph Company. B. General Accounting Department of Western Electric	210
	519
Company	520
37. Budgeting for Cash Receipts and Cash Disbursements.	
Boston Chamber of Commerce	520
CHAPTER VI. THE ADMINISTRATION OF PRODUCTION	
A. The Background of Modern Production Introduction and Problems	523
I. A Brief Outline of the History of Science. E. S. Dana.	525
2. What Can Science Contribute in the Future?	
A. A Hint of the Contribution of Physics. R. A.	
$Mill\ kan$	530
B. A Hint of the Contribution of Botany. J. M.	
Coulter	533
3. Technical Education. Thomas Nelson & Sons	536
4. The Engineering Profession. F. R. Hutton	539
 Some Consequences of Technological Industry A. The Transfer of Thought, Skill, and Intelligence 	
I. D. S. Kimball	543
II. American Society of Mechanical Engineers	544
B. The Intellectual Effects of Machinery. J.A. Hobson	547
C. Technological Industry Is Complex Industry .	550
D. Technological Industry Is Frequently Large-Scale	
Industry. L. C. Marshall and L. S. Lyon	553
E. Standardization in Manufacturing. R. F. Hoxie	555
B. Manu acturing Functions with Particular Reference to	
Control Introduction and Problems	556
6. An Illustration of What Is Involved in Modern Manu-	20,
facturing. J. V. Woodworth	560
7. The Control Problem Illustrated by Layout and Routing.	-
D. C. Kienhall	56:

TABLE OF CONTENTS	XX1
	PAGE
8. The Control Problem Varies with Different Types of	
Industry A. S. E. Thompson	565
B. G. D. Babcock	567
9. Five Organic Functions in Manufacturing Industry.	
A H Church	570
A Sample of Problems Arising in Manufacturing Func-	0
tions I ibrary of Factory Management	578
Measuring and Communicating Aids: Inspection.	-0-
A D Wilt Ir	581
12. Measuring and Communicating Aids: Graphic Produc-	584
tion Control C. E. Knoeppel	504
13. Measuring and Communicating Aids: A Progress Chart.	586
H. L. Gantt	3
14. Measuring and Communicating Aids: Time Study. F. W. Taylor.	588
15. Measuring and Communicating Aids: Motion Study.	
E 14/ Taylor	589
Massuring and Communicating Aids: Classification and	
Symbols H H Farauhar	591
Measuring and Communicating Aids: Cost-Accounting	
A The Distribution of Expense. C. B. Golfig	595
P. The Services of Cost-Accounting. J. R. W naman.	597 600
C. The Basis of Manufacturing Costs. H. L. Gantt.	000
18. The Control of Large- vs. Small-Scale Industries A. A Protest against Too Great Centralization.	
R. B. Wolf	602
B. The Small-Shop Basis of Production. G. H. Haynes	604
19. Some Organization Charts. S. H. Bullard, L. V. Estes	,
and Norman Howard	, 605
C. Scientific Shop Management	
Introduction and Problems	. 608
20. The Beginnings of Scientific Management. C. B. Goin	g 610
Scientific Management in Production	
A II S Person	, 615 . 618
B. F. W. Taylor	. 623
22. Stages in Management. H. P. Kendall	. 02
22 Control of Manufacture under the Taylor System	T.
H. K. Hathaway	
24. Steps in Installing the Taylor System. H. K. Hathawa 25. Scientific Management and Labor. R. F. Hoxie.	. 63
as Scientific Management and Labor. 16. 2. 2000.	v