Notice 11th

Cost Accounting

S.P. Iyengar





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Cost Accounting

Cost Accounting

(For B.Com., BBA, MBA & other Professional Courses)

S.P. IYENGAR

Formerly Principal S.S.M.R.V. College Bengaluru



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Author's Acknowledgement: The writing of a Textbook always involves creation of a huge debt towards innumerable authors and publications. We owe our gratitude to all of them. We acknowledge our indebtedness in extensive references after the annexures in the book. If, for any reason, any acknowledgement has been left out we may be excused. We assure to carry out correction in the subsequent edition, as and when it is known.

Preface

Preface to the Eleventh Edition

We have great pleasure in presenting the Eleventh Revised Edition of the book entitled, "Cost Accounting" to our esteemed readers.

Salient Features of the Revised Edition

The following new additions are worth noting in the present edition:

- Chapter (B-3-Materials Costing) Goods and Services Tax (GST) on Purchase of materials with solved illustration.
- Chapter (B-7 Labour Cost Accounting) Diagrammatical representation of "System of Wage Payment".
- Chapter (C-1 Job Costing) Comparison between Job Costing and Batch Costing.
- Chapter (C-6 Operating Cost) (1) Costing of Information Technology and Information Technology Enabled Services (IT & ITES); (2) Costing of Insurance Company (with solved illustrations).
- Chapter (H-1 Budgetary Control) Activity-Based Budgeting with solved illustration
- Chapter (H-4 Cost Control, Cost Reduction and Cost Management) (1) Target Costing (2) Value Analysis (3) Value Engineering (4) Value Chain Analysis (5) Business Process Reengineering (BPR).
- Appendix (A) A new chapter on "Emerging Trends in Cost Accounting" has been added.
- Solved Question Papers of University of Madras (Year 2014 to 2018); Unsolved Question Papers of Madras University (2020-21), Osmania University (2019), Bangalore University (2019, 2022) and Saraswathi Narayana College, (April 2022) (Affiliated to Madurai Kamaraj University).

We acknowledge with gratitude the help received from scholars, friends and well-wishers at the various stages of preparation of this edition.

We sincerely hope that this revised edition would serve the needs of students and teachers much better. We welcome constructive suggestions from users of this book for its further improvement.

Editorial Board Sultan Chand & Sons

To the Tenth Edition

Although the previous edition of this book was rewritten, the author has felt it necessary to make substantial changes in some of the major chapters of the book with a view to making it more useful to the users. The chapters that are again rewritten are:

- · Marginal Costing,
- · Cost-volume-profit Analysis,

vi Preface

- · Managerial decision-making, and
- Standard Costing.

Besides these chapters which are wholly revised by presenting the contents more informatively and also more elaborately, minor changes have been made in the first chapter also on the basis of the nature of questions set at different University Examinations.

Apart from replacing all the theoretical questions and practical problems with the latest ones set at different Universities and professional bodies in India, the author has also increased their number. The book is made to contain nearly 875 theory questions and 791 unsolved problems with their answers. The number of solved illustrations is about 493.

It is earnestly hoped that this revised edition would serve the needs of students and teachers much better. While welcoming constructive suggestions from the users of this book for its further improvement, the author places on record his sincere thanks to M/s Sultan Chand & Sons, the publishers of this book for bringing out this, the tenth edition barely within two years of its reprint in 2002.

Bangalore S.P. IYENGAR

Extracts from the Preface to the First Edition

This book, entitled "Cost Accounting", lays particular emphasis on managerial uses of cost information. Although written mainly from the point of view of students taking up the university examinations to qualify themselves for a degree in Commerce, the book will be highly useful to those interested in the various professional examinations, too. The practising business manager will find the book to be a very useful guide in his attempt at making efficient and economical use of the relatively scarce resources.

The textual matter starts with the presentation of the basic concepts the understanding of which is so essential for a good background of the discipline. It then proceeds logically to a detailed discussion of the components for cost build-up, and later branches off to the managerial functions of planning, decision-making and control with a view to enlightening management on the usefulness of cost information in their day-to-day functioning amidst uncertainty and risk.

A sincere attempt has been made to present the textual matter in a non-technical, simple and lucid style within the comprehending capacity of a beginner.

From the point of view of students in particular, the book is examination-oriented in that it contains a large number of illustrations with notes appended thereto, to assist them to face the concerned examinations with confidence. Besides, exercises of the nature of theory questions and problems relating to the various university and other examining bodies have been given and these exercises are from the latest question papers. In the context of the latest trend of thought regarding the nature of questions set at the various examinations, considerable attention has been given to the objective-type questions, and an attempt in this direction has resulted in the framing and inclusion of 800 of such questions in Appendix 1 of the book. These questions have been arranged chapter-wise.

In preparing this book, I have utilized my 28 years' teaching experience, but yet I feel in all humility that there is no limit to knowledge which is like a vast ocean. Constructive suggestions are most welcome.

Jayanagar, Bangalore 1980 S.P. IYENGAR

Syllabus

Tamil Nadu State Council for Higher Education, Chennai-600005

B.Com., General Third Year – Semester V; Core-IC: Cost Accounting-I

Unit-I: Introduction of Cost Accounting – Definition – Nature and Scope – Principles of Cost Accounting – Cost Accounting and Financial Accounting – Cost Accounting vs. Management Accounting – Installation of Costing System – Classification of Costs – Cost Centre – Profit Centre.

Unit-II: Cost Sheet and Methods of Costing – Preparation of Cost Sheet – Tenders & Quotations – Reconciliation of Cost and Financial Accounts – Unit Costing-Job Costing.

Unit-III: Material Costing – Material Control Meaning and Objectives – Purchase of Materials – EOQ – Stores Records – Reorder Levels – ABC Analysis – Issue of Materials – Methods of Issue – FIFO – LIFO – Base Stock Method – Specific Price Method – Simple and Weighted Average Method.

Unit-IV: Labour Costing – Direct Labour and Indirect Labour – Time-Keeping – Methods and Calculation of Wages Payments – Time Wages – Piece Wages – Incentives – Different Methods of Incentive Payments – Idle Time – Overtime – Labour Turnover – Meaning, Causes and Measurement.

Unit-V: Overheads Costing – Overheads – Definition – Classification – Allocation and Apportionment of Overheads – Basis of Apportionment – Primary and Secondary Distribution – Absorption of Overheads – Methods of Absorption – Preparation of Overheads Distribution Statement – Machine Hour Rate – Computation of Machine Hour Rate.

Third Year – Semester-VI; Core-XIII: Cost Accounting-II

Unit-I: Cost Accounting Standards – An Introduction to CAS – Purpose of CAS – Advantages of CAS – Difference between CAS and FAR Regulations – Different Degrees of CAS Coverage – Cost Accounting Standards – Responsibility Accounting and Divisional Performance Measurement.

Unit-II: Contract Costing – Definition – Features of Contract Costing – Calculation of Profit on Contracts – Cost Plus Contract – Contract Costing and Job Costing – A Comparison – Preparation of Contract Account.

Unit-III: Process Costing – Process Costing – Meaning – Features of Process Costing – Application of Process Costing – Fundamental Principles of Process Costing – Treatment of Loss and Gain : Normal and Abnormal Loss – Abnormal Gain – Joint Products, By-Products – Concept of Equivalent Production – Process Accounts – Process Losses and Gains.

Unit-IV: Operation Costing – Operation Costing – Meaning – Preparation of Operating Cost Sheet – Transport Costing – Power Supply Costing – Hospital Costing – Simple Problems.

viii Syllabus

Unit-V: Standard Costing – Definition – Objectives – Advantages – Standard Cost and Estimated Cost – Installation of Standard Costing – Variance Analysis – Material, Labour, Overhead, and Sales Variances – Calculation of Variance.

University of Madras

B.Com., (General) Degree Course Year III; Semester-VI

Unit-I: Contract Costing (C-2) – Definition – Features of Contract Costing (C-2.1) – Cost plus Contract (C-2.2) – Contract Costing *vs.* Job Costing – Preparation of Contract Account.

Unit-II: Process Costing (C-3) – Features of Process Costing (C-3.3) – Process Loss – Normal and Abnormal Loss – Abnormal Gain – Joint Products (C-4.1; 4.12) – By Products – Concept of Equivalent Production – Process counts – Process Lossess and Gain (C-3.7; 3.19).

Unit-III: Operation Costing (C-7) – Operating Costing (C-6) – Meaning – Preparation of Operating Cost Sheet (C-6.7) – Transport Costing (C-6.5) – Power Supply Costing (C-6.20) – Hospital Costing – Simple Problems (C-6.24).

Unit-IV: Marginal Costing (G-1) – Meaning – Features – Absorption Costing (G-1.4) – Marginal Costing vs. Absorption Costing (G-1.11) – Contribution – PV Ratio (G-2.10) – Break-Even Point – Key Factor – Margin of Safety – Preparation of Marginal Cost Statement (G-2.10).

Unit-V: Standard Costing (H-3) – Definition – Objectives (H-3.8) – Advantages (H-3.77) – Standard Cost (H-3.2) and Estimated Cost (H-3.3) – Installation of Standard Costing – Variance Analysis (H-3.21) – Material (H-3.21) – Labour (H-3.32) Overhead (H-3.40), and Sales Variances (H-3.59) – Calculation of Variances (H-3.59).

Madurai Kamaraj University, Tamil Nadu

II Year, 2019-2020, III Semester Syllabus for New Course for B.Com.

Unit-I: Introduction (A-1) – Definition of Cost (A-1.6) – Costing, Cost Accounting and Cost Accountancy (A-1.6; A-1.7) – Scope and Objectives – Advantages and Limitations – Cost (A-1.20) Accounting vs. Financial Accounting (A-1.23) and Cost Accounting vs. Management Accounting – Classification of Cost – Elements of Cost – Preparation of Cost Sheet (A-1,32; A-1.33).

Unit-II: Material (B-2) – Material Control – Purchase Procedure (B-1.10) – Different Levels of Stock of Materials (B-2.12) – FOQ – Perpetual Inventory System (B-2.37) – ABC Analysis (B-2.32) – Inventory (B-2.41) Turnover Ratio – Bin Card – Stores Ledger (B-2.9) – Pricing of Material Issues (FIFO (B-3.13), LIFO (B-3.18), and Average (B-3.25) Methods – Labour (B-6) Labour Turnover – Methods of Remunerating Labour – Incentive Schemes (B-7.2).

Unit-III: Overheads (B-9) – Meaning – Classification – Primary and Secondary Distribution of Overheads (B-9.15, 9.16) – Absorption of Overheads (Simple Problem) (B-9.29).

Unit-IV: Methods of Costing (C-4) – Operating Costing (C-6.1) – Process (C-3.1) Costing (C-3.8) – Normal Loss (C-3.7) – Abnormal Loss and Abnormal Effectives – Process Accounts (Excluding Inter – Process Profit and Equivalent Production) – Simple Problems. Joint Product and By-Product (Theory only) (C-4.12).

Unit-V: Cost Centre (A-1.9) – Definition – Classification (A-1.9); Profit Centre (H-2,5): Meaning – Purpose – Profit centre vs. Cost Centre (H-2.5); Cost Unit (A-1.7): Meaning – Examples; Cost Control (H-4.1): Meaning – Elements – Cost Control Techniques (H-4.2); Cost Reduction (H-4.2): Meaning – Features – Fields Covered – Merits – Tools & Techniques – Cost Control vs. Cost Reduction (H-4.3).; Cost Audit (E-2.1; E-2.2): Definition – Objectives – Advantages – Cost Audit (E-2.5) vs. Financial Audit (E-2.4).

Syllabus ix

Osmania University, Hyderabad

B.Com., Programme (CBCS) Syllabus (w.e.f. 2018-2019)
Paper (BC 503); Cost Accounting
Third Year (Semester V)

Unit-I: Introduction (A-1) – Cost Accounting (A-1.4): Definition – Features – Objectives – Scope – Advantages and Limitations (A-1.20) – Essentials of a Good Cost Accounting System – Difference between Cost Accounting (A-1.222; 1.23) and Financial Accounting – Cost Concepts – Cost Classification (A-1.6, 1.9).

Unit-II: Material (B-2) – Direct and Indirect Material Cost – Inventory Control Techniques – Stock Levels – EOQ – ABC (B-2,10; 2.12) (B-2.32) Analysis – JIT – VED – FSND – Issue of Materials to Production – Pricing Methods: FIFO (B-3.13) – (-3.18) LIFO with Base Stock and Simple and Weighted Average Methods (B-3.25; 3.26).

Unit-III: Labour and Overheads (B-6) – Labour: Direct and Indirect Cost (B-6.1) – Methods of Payment of Wages (only Incentive Plans): (B-7.7; 7.17; 7.18) Halsey, Rowan, Taylor Piece Rate and Merrick Multiple Piece Rate Methods (B-7.13). Overheads (B-9.3): Classification – Methods of Allocation – Apportionment (B-9.12) and Absorption of Overheads (B-9.30).

Unit-IV: Unit and Job Costing (C-5) – Unit Costing (C-5.1): Features – Cost Sheet – Tender and Estimated Cost Sheet. Job Costing (C-1.3): Features – Objectives – Procedure – Preparation of Job Cost Sheet (C-1.4).

Unit-V: Contract and Process Costing (C-2) – Contract Costing: Features – Advantages – Procedure of Contract Costing (C-2.2) – Guidelines to Assess Profit on Incomplete Contracts (C-2.5; 2.6).

Process Costing (C-3): Process Costing: Meaning – Features – Preparation of Process Account – Normal and Abnormal Losses (C-3.8).

Bangalore University

According to National Education Policy (NEP) – 2020 Bachelor of Commerce (B.Com.) B.Com. 4.2, Semester IV, Cost Accounting

Module 1: Introduction to Cost Accounting – Introduction, Meaning and Definitions of Cost, Costing and Cost Accounting. Need and Objectives of Cost Accounting. Distinctions between Financial Accounting and Cost Accounting. Advantages and Limitations of Cost Accounting. Classification of Cost – Material Cost, Labour Cost and Overheads. Important terminologies, Cost Unit, Cost Center, Direct Cost, Indirect Cost, Prime Cost, Production Cost, Administration Cost, Selling and Distribution Cost, Fixed Cost, Variable Cost, Semi-variable Cost, Period Cost, Product Cost, Explicit Cost, Implicit Cost, Historical Cost, Current Cost, Future or Predetermined Cost, Opportunity Cost. Installation of Cost Accounting System – Features of good cost accounting system, Precautions for installing effective cost accounting system. Cost Sheet – Meaning, Objectives and Contents of Cost Sheet – Problems on preparation of Cost Sheet, Tenders & Quotations.

Module 2: Material Costing – Introduction, Meaning of Material Cost, Types of Materials – Direct Materials, Indirect Materials. Material Cost Control – Meaning, Objectives and Benefits. Scope of Material Cost Control – Procurement, Storage and Management of Issues. Make or Buy Decision, Purchase Process, Vendor Selection, Economic Order Quantity. Problems on *EOQ*. Documents – Bill of Materials, Material, Requisition Note, Purchase Requisition, Purchase Order, Goods Received Note, Bin Cards, Stores, Ledger, Material Return Note, Material Outward Return Note. Methods of Stores or Inventory Control – *ABC* Method, *VED* Method and *FSN* Method. Determination of Stock Levels – Re-order Level, Minimum Level, Maximum Level, Average Level and Danger Level, Problems on Stock Levels. Duties and Responsibilities of Stores Manager. Pricing of Material Issues – Specific Price Method, First-In-First-Out Method (*FIFO*), Last-In-Last-Out Method (*LIFO*), Highest-In-First-Out Method (*HIFO*), Simple Average Method, Weighted Average Method, Base Stock Method, Replacement Cost Method, Realizable

Price Method, Standard Price Method, Inflated Price Method. Problems under First-In-First-Out Method (*FIFO*), Last-In-Last-Out Method (*LIFO*), Simple Average Method and Weighted Average Method.

Module 3: Labour Costing – Introduction, Meaning of Labour Cost, Types of Labour – Direct Labour, Indirect Labour – Labour Cost Control – Meaning, Objectives and Benefits. Scope of Labour Cost Control Departments involved, Time Analysis or Work Study, Time Keeping and Time Booking, Payroll Procedure, Idle Time, Over Time, Labour Turnover, Wage and Incentive Systems – Simple Time Rate System, Straight Piece Rate System, Taylor's Differential Piece Rate System, Merrick's Differential Piece Rate System, Halsey System and Rowan System. Job Evaluation and Merit Rating, Labour Productivity. Problems on calculation of Labour Cost, Overtime Wages and Wage and Incentive Systems.

Module 4: Overhead Costing – Introduction, Meaning of Overhead, Classification of Overhead Factory Overhead, Administrative Overhead, Selling Overhead, Distribution Overhead, Research and Development Overhead. Accounting and Control of Overheads. Cost Allocation and Cost Apportionment. Methods of Cost Re-apportionment – Direct Method, Step-ladder Method, Repeated Distribution Method, Simultaneous Equation Method. Problems on Apportionment of production overheads and problems on Re-apportionment of production overheads under Direct Method and Simultaneous Method.

Module 5: Reconciliation of Financial and Cost Accounts – Introduction – Meaning of Reconciliation, Reasons for Differences in Profits under Financial and Cost Accounts; Procedure for Reconciliation – Ascertainment of Profits as per Financial Accounts and Cost Accounts and Reconciliation of Profits of both sets of Accounts – Preparation of Reconciliation Statement, Memorandum Reconciliation Account – Problems.

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(New Syllabus 2020-2021) B.Com., Degree (Regular) (CBCS Semester Scheme) 5.2 Cost Management; (Semster-V)

- **Unit-1: Cost Control and Cost Reduction (H-4)** Meaning of Cost Control and Cost Reduction (H-4.2) Area Covered by Cost Control and Cost Reduction (H-4.3) Product Design (H-4.5), Target Costing Value Analysis Value Engineering Value Chain Analysis, Business (H-4.8) Process Reengineering (H-4.8) (Theory only) Pareto Chart (B-2.34).
- **Unit-2: Marginal Costing (G-1)** Costing Cost Classification under Absorption Costing Meaning and Definition of Marginal Costing Absorption Costing *vs.* Marginal Costing (G-1.11) Need for Marginal Costing (G-1.8) Arguments against and in favor of Marginal Costing Marginal Cost Equation (G-2.5) Uses and Limitations of Marginal Costing (G-1.21; G-1.22) Breakeven Analysis (G-2.6) Problems on Break-even Analyses (G-2.23).
- **Unit-3: Standard Costing (H-3)** Historical Costing Introduction Meaning & Definition of Standard Cost and Standard Costing (H-3.2) Advantages & Disadvantages of Standard Costing Preliminaries in Establishing System of Standard Costing Variance Analysis Material Variance (H-3.21) Labour Variance (H-3.32) and Overheads Variance (H-3.40) Problems on Material Variance and Labour Variance (H-3.23; H-3.34).
- **Unit-4: Budgetary Control (H-1)** Introduction Meaning & Definition of Budget (H-1.4) and Budgetary Control (H-1.6) Essential Requirements of Budgetary Control Advantages and Disadvantages of Budgetary Control Meaning, Types of Functional Budgets Flexible Budgets (H-1.38) Cash Budgets (H-1.30) Sales Budget (H-1.19) and Production Budget (H-1.21; H-1.22) Problems on Flexible Budgets and Cash Budget (H-1.53).
- **Unit-5:** Activity Based Costing (B-9) Introduction (B-9.64) Weakness of Conventional System (B-9.65) Concept of ABC Kaplan and Cooper's Approach Cost Drivers and Cost Pools Allocation of Overheads under ABC Characteristics of ABC Steps in the Implementation of ABC Benefits from Adaptation of ABC System (B-9.68) Difficulties faced by the Industries in the Implementation of ABC Problems on ABC (B-2.35).

Brief Contents

BC

Section A – Principles and Concepts				
A-1.	Cost Concepts, Procedures, Methods and Techniques	A-1.3 – A-1.42		
	Section B – Elements of Cost			
B-1.	Materials – Purchase Control	B-1.3 – B-1.16		
B-2.	Materials – Storage and Issue Control	B-2.1 - B-2.60		
B-3.	Materials - Costing Receipts and Issues	B-3.1 - B-3.62		
B-4.	Materials – Material Losses	B-4.1 – B-4.8		
B-5.	Materials – Tools, Patterns, Designs, Blue-Prints and Packing Materials	B-5.1 – B-5.4		
B-6.	Labour – Labour Cost Control	B-6.1 - B-6.32		
B-7.	Labour – Labour Cost Accounting	B-7.1 – B-7.72		
B-8.	Chargeable Expenses	B-8.1 – B-8.2		
B-9.	Overheads - Manufacturing	B-9.1 – B-9.112		
B-10.	Overheads – Administration, Selling and Distribution	B-10.1 – B-10.32		
	Section C – Methods of Costing			
C-1.	Job Costing	C-1.3 - C-1.22		
C-2.	Contract Costing	C-2.1 - C-2.52		
C-3.	Process Costing	C-3.1 - C-3.88		
C-4.	Joint Product and By-Product Costing	C-4.1 - C-4.34		
C-5.	Unit Costing	C-5.1 – C-5.38		
C-6.	Operating Costing	C-6.1 - C-6.46		
C-7.	Operation Costing	C-7.1 – C-7.10		
	Section D – Cost Book Keeping			
D-1.	Cost Book Keeping and Reconciliation of Cost and Financial Accounts	D-1.3 - D-1.52		
	Integral Accounting	D-2.1 - D-2.14		
	Section E – Miscellaneous			
E-1.	Uniform Costing	E-1.3 – E-1.14		
	Cost Audit	E-2.1 – E-2.14		
E-3.	Mechanisation of Cost Accounting	E-3.1 – E-3.14		

xii Brief Contents

Section F – Management Accounting	
F-1. Nature and Scope of Management Accounting	F-1.3 – F-1.30
Section G – Information for Profit Planning and Decision	on-Making
G-1. Marginal Costing	G-1.3 – G-1.46
G-2. Cost-Volume-Profit Analysis	G-2.1 – G-2.70
G-3. Managerial Decision-Making	G-3.1 – G-3.78
Section H – Information for Planning and Cont	rol
H-1. Budgetary Control	H-1.3 – H-1.76
H-2. Responsibility Accounting	H-2.1 – H-2.14
H-3. Standard Costing	H-3.1 – H-3.116
H-4. Cost Control and Cost Reduction	H-4.1 – H-4.12
H-5. Management Reporting	H-5.1 – H-5.8
Appendix	
Emerging Trends in Cost Accounting	A-1 – A-12
University Question Papers	QP-1 – QP-73

Section A – Principles and Concepts

A-1. Cost Concepts, Procedures, Methods and Techniques	A-1.3 – A-1.42
Introduction	
Sub-areas of the Accounting Discipline	A-1.4
Financial Reporting – External and Internal	
Managerial Need for Accounting Information	
Cost Accounting – Its Sphere of Activity	
Basic Cost Concepts	
Cost	
Costing	A-1.6
Cost Accounting	
Cost Accountancy	
Cost Unit	A-1.7
Cost Centre	
Cost Elements and Cost Classification	A-1.9
Direct and Indirect Cost	
Production Cost and its Composition	A-1.9
Fixed and Variable Cost	
Other Cost Concepts	A-1.11
Need for Cost Accounting	A-1.18
Why Cost Accounting?	A-1.18
Limitations of Financial Accounting	A-1.19
Relationship with Financial Accounting	A-1.21
Differences between the Two	A-1.21
Principles of Cost Accounting	A-1.22
Benefits of Cost Accounting	
Limitations of Cost Accounting	A-1.23
Methods and Procedure	A-1.24
Cost Accounting Methods	A-1.24
Cost Accounting Procedure	
Cost Accounting Techniques	
Installation of Cost Accounting	A-1.26
Practical Difficulties in Installation	A-1.28
Cost Sheet and its Purposes	A-1.29
The Cost Accountant	A-1.34
Exercises	A-1 35

Section B – Elements of Cost

B-1.	Materials - Purchase Control	B-1.3 – B-1.16
	Meaning of the Term 'Materials'	B-1.3
	Importance of Materials	
	Need for Material Control	
	Definition of Material Control	B-1.4
	Objectives of Material Control	
	Essentials of Material Control	
	Advantages of Material Control	B-1.5
	Organisation of Material Control	B-1.6
	Purchase Department – Purchase Manager	B-1.6
	Qualifications, Responsibilities and Duties of the Purchase Manager	
	Centralised and Decentralised Purchasing	
	Centralised Purchases	B-1.8
	Striking a Balance between the Two	
	Purchase Procedure	
	Just-in-Time	B-1.13
	Just-in-Time Production	B-1.14
	Just-in-Time Purchasing	
	Exercises	
B-2.	Materials - Storage and Issue Control	B-2.1 - B-2.60
	The Stores Department	B-2.1
	Objectives of Stores-keeping	
	Functions of the Store-keeper	
	Organisation of Stores Department	
	Types of Organisation	
	Decentralised Stores	
	Combined System	
	Location and Layout of Stores Department	
	Classification and Codification of Stores	B-2.4
	Classification	
	Codification	B-2.5
	Methods of Codification	B-2.5
	Location Coding	B-2.6
	Advantages of Coding	
	Essentials of Coding	
	Stock Records	B-2.7
	Bin Card	
	Stock Register	B-2.8
	Stores Ledger	B-2.8
	Advantages of Mechanisation	B-2.8
	Bin Card vs. Stores Ledger	B-2.9
	Are Bin Cards Necessary?	B-2.9
	Inventory Control	
	Meaning of Inventory	B-2.10
	Need for Inventory	
	Inventory Costs	
	Definition of Inventory Control	
	Objectives of Inventory Control	
	Methods of Inventory Control	
	Underlying Assumptions	
	Economic Batch Quantity	B-2.12

	Determination of EOQ	B-2.12
	EOQ with Quantity Discount	B-2.18
	Fixation of Stock Levels	
	ABC Analysis	B-2.33
	The Two-bin System	B-2.36
	Ordering Cycle Method	
	Automatic Order System	
	Min-Max Method	
	Perpetual Inventory System	
	Control Ratios	
	Issue of Stores	
	Material Requisitions	
	Bill of Materials	
	Return of Materials	
	Transfer of Materials	B-2.47
	Exercises	
B-3.	Materials - Costing Receipts and Issues	.B-3.1 – B-3.62
	Material Cost	
	Valuation of Purchases	
	Goods and Services Tax (GST) on Purchase Materials	
	Specific and Non-specific Costs	
	Specific Costs	B-3 3
	Non-specific Costs	B-3.4
	Methods of Apportionment	B-3 5
	Dual Apportionment	
	Blanket Apportionment	
	Receiving and Handling Charges	
	Treatment as Overhead	
	Blanket Rate and Separate Rates	
	Valuation of Purchases Before Receiving the Invoice	
	Valuation of Stores Issues	B-3 11
	Objective of Pricing Issues	B-3 12
	Problem of Pricing Issues	B-3 12
	Methods of Pricing Issues	R-3 13
	Specific Price Method	R-3 13
	First-in, First-out Method	R-3 14
	Last-in, First-out Method	
	FIFO and LIFO Methods	
	Base Stock Method	
	Highest-in, First-out Method	
	Next-in-First-out Method	
	Standard Price Method	
	Market Price Method	
	Inflated Price Method	
	Reuse Price Method	
	Effect of the Methods on Inventory Costing	
	Pricing of Materials Returned to Vendors	
	Pricing of Materials Returned to Vendors Pricing of Materials Returned to Stores	D-3.40
	Exercises	
	EACI CISCS	D-3.40
D 4	Materials - Material Losses	D / 1 D / 0
D-4.	The Problem	
	Waste	
	Normal and Abnormal Wastage	B-4.1 R-4.9
	INVITUAL AUG AUGULUAL WASIASE	11-4/

	Scrap	B-4.2
	Types	B-4 2
	Valuation	
	Accounting Treatment	
	Accounting Treatment	D 4.0
	Control of Waste and Scrap	D-4.3
	Spoilage	
	Defectives	
	Accounting Treatment	B-4.4
	Obsolete Materials	B-4.4
	Minimisation of Loss	
	Exercises	
B-5.	Materials - Tools, Patterns, Designs, Blue-Prints and	
	Packing MaterialsB-5.	
	Tools	
	Accounting	B-5.1
	Control of Tools Cost	B-5.2
	Patterns	
	Design, Drawing and Blue-prints	
	Packing Materials	D-0.3
	Accounting	
	Control	
	Exercises	B-5.4
B-6.	Labour – Labour Cost ControlB-6.1	- B-6.32
D -0.	Labour Cost	
	Importance of Labour Cost	
	Problem of Labour Cost Control	
	Management's Interest in Labour Cost	
	Departments in Relation to Labour Cost Control	
	Personnel Manager	B-6.3
	Planning Manager	
	Time-keeping	
	Wage Department	B-63
	Cost Accountant	
	Time-keeping	Б-6.3
	Objects of Time-keeping	
	Methods of Time-keeping	
	Attendance Sheet	B-6.4
	Disc or Token Method	B-6.5
	Card Time Recorder	B-6.5
	Dial Time Recorder	
	Use of Computers	
	Time-Booking	
	Methods of Time-Booking	
	Manual Methods	
	Mechanical Methods	B-6.10
	Weekly Job Card	B-6.10
	Time Recording for Piece Workers	B-6.11
	Piece Work Card	
	Idle Time	
	Normal and Abnormal Idle Time	
	Accounting Treatment	
	Control	
	Idle Time Card	B-6 13

	III mi D	D 0 10
	Idle Time Report	
	Overtime	
	Is Overtime Work Necessary?	
	Control	B-6.14
	Treatment of Overtime Cost	
	Methods of Treatment	
	Out-workers	B-6.15
	Control of Field Labour	B-6.16
	Casual Workers	B-6.16
	Control	B-6.16
	Labour Turnover	B-6.17
	Causes of Labour Turnover	
	Effects of Labour Turnover	
	Cost of Labour Turnover	B-6 18
	Measurement of Labour Turnover	
	Minimisation of Labour Turnover	
	Treatment of Cost of Labour Turnover	
	Exercises	B-6.25
B-7.	Labour - Labour Cost Accounting	
	Problem of Labour Remuneration	
	Principles of Labour Remuneration	B-7.2
	Features of a Good Wage System	
	Systems of Wage Payment	B-7.3
	Time Wage Systems or Payment Based on Time	B-7.3
	Payment by Result	
	Merrick's Differential Piece Rate	
	Incentive Plans for Indirect Workers	
	Fringe Benefits	
	Holiday Pay	D 7 11
	Treatment of Holiday Pay	
	Leave Pay	B-7.44
	Labour Cost Accounting	
	Payroll Department	
	Payment of Wages	B-7.46
	Unclaimed Wages	
	Prevention of Payroll Fraud	
	Work Study	B-7.49
	Method Study	
	Job Evaluation	B-7.51
	Methods of Evaluation	B-7.51
	Merit Rating	
	Distinction between Job Evaluation and Merit Rating	
	Labour Productivity	
	Exercises	B-7.54
B-8.	Chargeable Expenses	B-8.1 - B-8.2
	What are Chargeable Expenses?	B-8.1
	Nature of Chargeable Expenses	
	Chargeable Expenses and Direct Materials	B-8.2
	Chargeable Expenses and Overhead	B-8.2
	Exercises	
B-9.	Overheads - Manufacturing	B-9.1 – B-9.112
	Direct and Indirect Costs	

Meaning Elements	
Classification	B-9.3
Methods of Classification	B-9.3
Function-wise Classification	B-9.3
Element-wise Classification	B-9.5
Behaviour or Variability Basis	
Need for Classification According to Behaviour	
Codification	
The Mnemonic Method	B-9.8
Numerical Method	
Decimal Method	
Collection of Manufacturing Overhead	
Invoice	
Stores Requisitions	
Wages Analysis Book	
Cash Book	
Journal Entries	
Subsidiary Records	
Departmentalisation	
Allocation and Apportionment	
Definition of Allocation and Apportionment	
Distinction between Allocation and Apportionment	B-0 19
Bases of Apportionment	B 0 19
Reapportionment	
Methods of Reapportionment	B 0 15
Direct Redistribution	
Step-ladder Method	
Reciprocal Service Method	D-9.10
Overhead Absorption	
Overhead Rates of Absorption	
Blanket Rate and Departmental Rates	
Actual Rates and Predetermined Rates	
Capacity Consideration and Overhead Rates	
What is Capacity?	
Concepts of Capacity	B-9.35
Methods of Overhead Absorption	B-9.38
Units of Output	
Direct Material Cost	
Direct Wages Cost	
Prime Cost Basis	
Direct Labour Hour Basis	
Machine Hour Rate Basis	
Machine Expenses or Variable Charges	
Dual Hour Rate Method	
Standard Rate Method	
Under or Over Absorption of Overhead	B-9.63
Disposition of Under or Over-absorbed Overhead	B-9.64
Application of Supplementary Rates	B-9.64
Write off to Profit and Loss Account	
Carry Forward to Next Year's Accounts	
Absorption Costing	
Activity-Based Costing (ABC)	
Activity-Based Costing	B-9.74
Procedure Involved	
Exercises	B-9.76

B-10.	Overheads - Administration, Selling and Distribution	B-10.1 – B-10.32
	Definition	B-10.1
	Nature	B-10.2
	Accounting	B-10.3
	Collection	
	Absorption	B-10.4
	Control	B-10.5
	Components of Selling and Distribution Overheads	B-10.5
	Its Features	
	Collection and Absorption	
	Accounting and Control	
	Treatment of Special Items of Overhead	
	Depreciation	
	Interest on Capital	
	Royalty	
	Bad Debts	
	Advertising	
	After-Sales Service	
	Packing Cost	
	Carriage Inward	
	Material Handling and Storage	
	Inspection Charges	
	Drawing and Designing Costs	B-10.22
	Internal Transport	
	Training Costs	
	Fringe Benefits	
	Canteen Expenses	
	Welfare Expenses	
	Medical Service	
	Power Cost	
	Heating, Lighting and Air-Conditioning	
	Repairs and Maintenance	B-10.24
	Subscription and Donation	
	Insurance	
	Cost of Small Tools	
	Cost of Time-Keeping	
	Purchase Department Cost	
	Cost Office Expenses	
	Fixation of New Plant	
	Moving and Refixing Existing Plant	
	Cost of Dismantling	
	Market Research Expenses	
	Research and Development Expenses	
	Exercises	
	LACI CISCS	B-10.20
	Section C – Methods of Costing	
C-1.	Job Costing	
J	Definition	
	Features	
	Advantages	
	Requisites for its Application	
	Costing Procedure	
	Cost Accumulation	

XX

	Batch Costing	C-1.5
	Comparison between Job Costing and Batch Costing	C-1.6
	Exercises	C-1.17
C-2.	Contract Costing	C-2.1 - C-2.52
	Meaning	
	Basic Features	
	Cost Unit	
	Direct Costs	
	Indirect Costs	
	Surplus Materials	
	Sub-contracts	C-2.2
	Cost Control	
	Costing Procedure	C 2.2
	Plant and Machinery	2.2-ک د ۲ ع
	Work Cortified and Work Uncertified	
	Work Certified and Work Uncertified	
	Retention Money	
	Work-in-progress	
	Profit on Incomplete Contracts	
	Escalation Clause	C-2.7
	Sub-contracting	
	Cost-plus Contract	
	Exercises	C-2.33
0.0	Process Costing	001 0000
C-3.		
	Definition	
	Comparison with Job Costing	
	Application of Process Costing	C-3.3
	Features of Process Costing	C-3.3
	Difficulties Involved	
	Advantages and Disadvantages	C-3.4
	Costing Procedure	
	Process Losses	
	Inter-Process Profit	C-3.20
	Work-in-Progress and Concept of Equivalent Units	
	FIFO and LIFO Methods of Valuation of WIP	
	Exercises	C-3.54
C-4.	Joint Product and By-Product Costing	C-4.1 – C-4.34
	Meaning of Joint Products	
	Co-products	C-4.2
	Split-off Point	
	Costing of Joint Products	
	Methods of Apportioning Joint Costs	
	Physical Units Method	C-4.3
	Market Value Method	
	Survey Method	
	Average Unit Cost Method	C-4.11
	Marginal Cost Method	
	Meaning of By-products	C-4.13
	Distinction Between Joint Products and By-products	C-4.14
	Objective of Production	
	Market Value	
	Further Processing	
	Accounting Treatment of By-products	
	11000 alluling 11 outsilosse of Dy producto minimum minimum minimum	🔾 🗆

	Non-Cost or Sales Value Methods	
	Cost Methods	
	Exercises	C-4.24
C-5.	Unit Costing	C-5.1 – C-5.38
	Meaning	C-5.1
	Essential Features	C-5.1
	Cost Accumulation	C-5.2
	Cost Presentation	C-5.3
	Exercises	C-5.22
C-6.	Operating Costing	C-6.1 – C-6.46
	Meaning	C-6.1
	Nature	
	Applicability	
	Characteristics	
	Area of Activity	
	Cost Unit	
	Influence of Fixed Costs	
	Cost Classification	
	Government Control and Regulation	
	Determination of Cost Unit	
	Types of Service Undertakings	
	Transport Undertakings	
	Boiler House Costing	
	Power House Costing	
	Canteen Costing	
	Hotel Costing	
	Hospital Costing	
	Cinema Costing	C-6.29
	Costing for Information Technology (IT) &	
	Information Technology Enabled Services (ITES)	
	Costing of Insurance Company	C-6.32
	Exercises	C-6.33
C-7.	Operation Costing	C-7.1 – C-7.10
	Definition	
	Meaning	
	Relationship With Unit Costing, Process Costing and Service Costing	
	Salient Features	
	Cost Accumulation Procedure	
	Use of Control Ratios	
	Advantages and Disadvantages	
	Exercises	
	Section D – Cost Book Keeping	
D.1	Cost Book Keeping and Reconciliation of Cost and	
D-1.	Financial Accounts	D-1 3 _ D-1 59
	Costing and Cost Accounting	
	Costing and Cost Accounting	
	Application of Double Entry	
	Application of Double Entry	
	Interlocking and Integral Accounting	D-1.4

	Cost Accounting Ledgers	D-1.5
	Cost Control Accounts	D-1.5
	Reconciliation of Cost and Financial Accounts	
	Items Appearing Only in Financial Accounts	D-1.14
	Items Appearing Only in Cost Accounts	D-1.14
	Under or Over Absorption of Overheads	
	Different Bases of Stock Valuation	
	Depreciation	
	Need for Reconciliation	D-1.15
	Reconciliation Statement	D-1.16
	Exercises	D-1.29
D-2.	Integral Accounting	2.1 – D-2.14
	Definition	
	Meaning	D-2.1
	Features	
	Essential Requisites	
	Degree of Integration	
	Coordination of Work	
	Accruals and Pre-payments	
	Coding	
	Advantages	
	Third Entry Method	
	Exercises	
	Section E – Miscellaneous	
IP 1	Uniform Costins	10 13 1 1 4
Ľ'I.	Uniform Costing E-	1.3 – E-1.14
L-1.	Meaning of Uniform Costing	E-1.3
12-11.	Meaning of Uniform Costing	E-1.3 E-1.3
L-1.	Meaning of Uniform Costing Need for Uniform Costing Objectives of Uniform Costing	E-1.3 E-1.3 E-1.4
L/-1.	Meaning of Uniform Costing Need for Uniform Costing Objectives of Uniform Costing Scope of Uniform Costing	E-1.3 E-1.3 E-1.4 E-1.4
L-1.	Meaning of Uniform Costing Need for Uniform Costing Objectives of Uniform Costing Scope of Uniform Costing Requisites of Uniform Costing	E-1.3 E-1.3 E-1.4 E-1.4
E-1.	Meaning of Uniform Costing Need for Uniform Costing Objectives of Uniform Costing Scope of Uniform Costing Requisites of Uniform Costing Uniform Cost Manual	E-1.3 E-1.3 E-1.4 E-1.4 E-1.5 E-1.5
E-1.	Meaning of Uniform Costing Need for Uniform Costing Objectives of Uniform Costing Scope of Uniform Costing Requisites of Uniform Costing Uniform Cost Manual Practical Difficulties	E-1.3 E-1.3 E-1.4 E-1.4 E-1.5 E-1.6
E-1.	Meaning of Uniform Costing Need for Uniform Costing Objectives of Uniform Costing Scope of Uniform Costing Requisites of Uniform Costing Uniform Cost Manual Practical Difficulties Benefits of Uniform Costing	E-1.3 E-1.3 E-1.4 E-1.4 E-1.5 E-1.6 E-1.7
L-1.	Meaning of Uniform Costing Need for Uniform Costing Objectives of Uniform Costing Scope of Uniform Costing Requisites of Uniform Costing Uniform Cost Manual Practical Difficulties Benefits of Uniform Costing Limitations of Uniform Costing	E-1.3 E-1.3 E-1.4 E-1.5 E-1.6 E-1.7 E-1.8 E-1.9
E-1.	Meaning of Uniform Costing Need for Uniform Costing Objectives of Uniform Costing Scope of Uniform Costing Requisites of Uniform Costing Uniform Cost Manual Practical Difficulties Benefits of Uniform Costing Limitations of Uniform Costing Inter-firm Comparison	E-1.3 E-1.3 E-1.4 E-1.5 E-1.6 E-1.7 E-1.8 E-1.9
E-1.	Meaning of Uniform Costing Need for Uniform Costing Objectives of Uniform Costing Scope of Uniform Costing Requisites of Uniform Costing Uniform Cost Manual Practical Difficulties Benefits of Uniform Costing Limitations of Uniform Costing Inter-firm Comparison Purpose of Inter-firm Comparison	E-1.3E-1.4E-1.5E-1.6E-1.8E-1.9E-1.9
E-1.	Meaning of Uniform Costing Need for Uniform Costing Objectives of Uniform Costing Scope of Uniform Costing Requisites of Uniform Costing Uniform Cost Manual Practical Difficulties Benefits of Uniform Costing Limitations of Uniform Costing Inter-firm Comparison Purpose of Inter-firm Comparison Advantages of Inter-firm Comparison	E-1.3E-1.4E-1.5E-1.6E-1.8E-1.9E-1.10
E-1.	Meaning of Uniform Costing Need for Uniform Costing Objectives of Uniform Costing Scope of Uniform Costing Requisites of Uniform Costing Uniform Cost Manual Practical Difficulties Benefits of Uniform Costing Limitations of Uniform Costing Inter-firm Comparison Purpose of Inter-firm Comparison Advantages of Inter-firm Comparison Limitations	E-1.3E-1.4E-1.5E-1.6E-1.8E-1.9E-1.10E-1.10
E-1.	Meaning of Uniform Costing Need for Uniform Costing Objectives of Uniform Costing Scope of Uniform Costing Requisites of Uniform Costing Uniform Cost Manual Practical Difficulties Benefits of Uniform Costing Limitations of Uniform Costing Inter-firm Comparison Purpose of Inter-firm Comparison Advantages of Inter-firm Comparison	E-1.3E-1.4E-1.5E-1.6E-1.8E-1.9E-1.10E-1.10
	Meaning of Uniform Costing Need for Uniform Costing Objectives of Uniform Costing Scope of Uniform Costing Requisites of Uniform Costing Uniform Cost Manual Practical Difficulties Benefits of Uniform Costing Limitations of Uniform Costing Inter-firm Comparison Purpose of Inter-firm Comparison Advantages of Inter-firm Comparison Limitations Exercises	E-1.3 E-1.3 E-1.4 E-1.4 E-1.5 E-1.6 E-1.7 E-1.8 E-1.9 E-1.10 E-1.11 E-1.11
	Meaning of Uniform Costing Need for Uniform Costing Objectives of Uniform Costing Scope of Uniform Costing Requisites of Uniform Costing Uniform Cost Manual Practical Difficulties Benefits of Uniform Costing Limitations of Uniform Costing Inter-firm Comparison Purpose of Inter-firm Comparison Advantages of Inter-firm Comparison Limitations Exercises Cost Audit E- Here Mean Costing E- E- Cost Audit E- E- E- E- E- E- E- E- E- E	E-1.3E-1.4E-1.5E-1.6E-1.8E-1.9E-1.10E-1.11E-1.11
	Meaning of Uniform Costing Need for Uniform Costing Objectives of Uniform Costing Scope of Uniform Costing Requisites of Uniform Costing Uniform Cost Manual Practical Difficulties Benefits of Uniform Costing Limitations of Uniform Costing Inter-firm Comparison Purpose of Inter-firm Comparison Advantages of Inter-firm Comparison Limitations Exercises	E-1.3 E-1.4 E-1.4 E-1.5 E-1.6 E-1.7 E-1.8 E-1.9 E-1.10 E-1.11 E-1.11 E-1.11 E-2.14 E-2.14
	Meaning of Uniform Costing Need for Uniform Costing Objectives of Uniform Costing Scope of Uniform Costing Requisites of Uniform Costing Uniform Cost Manual Practical Difficulties Benefits of Uniform Costing Limitations of Uniform Costing Inter-firm Comparison Purpose of Inter-firm Comparison Advantages of Inter-firm Comparison Limitations Exercises Cost Audit Nature of Cost Audit	E-1.3 E-1.3 E-1.4 E-1.5 E-1.6 E-1.7 E-1.8 E-1.9 E-1.10 E-1.11 E-1.11 E-1.11 E-2.1 E-2.1
	Meaning of Uniform Costing Need for Uniform Costing Objectives of Uniform Costing Scope of Uniform Costing Requisites of Uniform Costing Uniform Cost Manual Practical Difficulties Benefits of Uniform Costing Limitations of Uniform Costing Inter-firm Comparison Purpose of Inter-firm Comparison Advantages of Inter-firm Comparison Limitations Exercises Cost Audit Nature of Cost Audit Objectives of Cost Audit	E-1.3 E-1.4 E-1.4 E-1.5 E-1.6 E-1.7 E-1.8 E-1.9 E-1.10 E-1.11 E-1.11 E-1.11 E-2.1 E-2.1
	Meaning of Uniform Costing Need for Uniform Costing Objectives of Uniform Costing Scope of Uniform Costing Requisites of Uniform Costing Uniform Cost Manual Practical Difficulties Benefits of Uniform Costing Limitations of Uniform Costing Inter-firm Comparison Purpose of Inter-firm Comparison Advantages of Inter-firm Comparison Limitations Exercises Cost Audit Nature of Cost Audit Objectives of Cost Audit Types of Cost Audit	E-1.3 E-1.4 E-1.4 E-1.5 E-1.6 E-1.7 E-1.8 E-1.9 E-1.10 E-1.11 E-1.11 E-1.11 E-2.1 E-2.1 E-2.1
	Meaning of Uniform Costing Need for Uniform Costing Objectives of Uniform Costing Scope of Uniform Costing Requisites of Uniform Costing Uniform Cost Manual Practical Difficulties Benefits of Uniform Costing Limitations of Uniform Costing Inter-firm Comparison Purpose of Inter-firm Comparison Advantages of Inter-firm Comparison Limitations Exercises Cost Audit Nature of Cost Audit Nature of Cost Audit Types of Cost Audit Cost Audit for Managerial Purposes	E-1.3 E-1.4 E-1.4 E-1.5 E-1.6 E-1.7 E-1.8 E-1.9 E-1.10 E-1.11 E-1.11 E-1.11 E-2.1 E-2.1 E-2.3 E-2.3
	Meaning of Uniform Costing Need for Uniform Costing Objectives of Uniform Costing Scope of Uniform Costing Requisites of Uniform Costing Uniform Cost Manual Practical Difficulties Benefits of Uniform Costing Limitations of Uniform Costing Inter-firm Comparison Purpose of Inter-firm Comparison Advantages of Inter-firm Comparison Limitations Exercises Cost Audit Nature of Cost Audit Objectives of Cost Audit Types of Cost Audit	E-1.3 E-1.4 E-1.4 E-1.5 E-1.6 E-1.7 E-1.8 E-1.9 E-1.10 E-1.11 E-1.11 E-2.1 E-2.1 E-2.3 E-2.3 E-2.3
	Meaning of Uniform Costing Need for Uniform Costing Objectives of Uniform Costing Scope of Uniform Costing Requisites of Uniform Costing Uniform Cost Manual Practical Difficulties Benefits of Uniform Costing Limitations of Uniform Costing Inter-firm Comparison Purpose of Inter-firm Comparison Advantages of Inter-firm Comparison Limitations Exercises Cost Audit Nature of Cost Audit Nature of Cost Audit Types of Cost Audit Cost Audit for Managerial Purposes Cost Audit for Individual Customers Cost Audit for Government	E-1.3 E-1.4 E-1.5 E-1.6 E-1.7 E-1.8 E-1.9 E-1.10 E-1.11 E-1.11 E-1.11 E-2.1 E-2.1 E-2.3 E-2.3 E-2.3
	Meaning of Uniform Costing Need for Uniform Costing Objectives of Uniform Costing Scope of Uniform Costing Requisites of Uniform Costing Uniform Cost Manual Practical Difficulties Benefits of Uniform Costing Limitations of Uniform Costing Inter-firm Comparison Purpose of Inter-firm Comparison Advantages of Inter-firm Comparison Limitations Exercises Cost Audit Nature of Cost Audit Nature of Cost Audit Types of Cost Audit Cost Audit for Managerial Purposes Cost Audit for Individual Customers Cost Audit for Government Cost Audit as Required by a Statute	E-1.3 E-1.4 E-1.5 E-1.6 E-1.7 E-1.8 E-1.9 E-1.10 E-1.11 E-1.11 E-1.11 E-2.1 E-2.1 E-2.3 E-2.3 E-2.3 E-2.3
	Meaning of Uniform Costing Need for Uniform Costing Objectives of Uniform Costing Scope of Uniform Costing Requisites of Uniform Costing Uniform Cost Manual Practical Difficulties Benefits of Uniform Costing Limitations of Uniform Costing Inter-firm Comparison Purpose of Inter-firm Comparison Advantages of Inter-firm Comparison Limitations Exercises Cost Audit Nature of Cost Audit Nature of Cost Audit Types of Cost Audit Cost Audit for Managerial Purposes Cost Audit for Individual Customers Cost Audit for Government	E-1.3 E-1.4 E-1.4 E-1.5 E-1.6 E-1.7 E-1.8 E-1.9 E-1.10 E-1.11 E-1.11 E-1.11 E-2.1 E-2.1 E-2.3 E-2.3 E-2.3 E-2.3 E-2.3 E-2.3
	Meaning of Uniform Costing Need for Uniform Costing Objectives of Uniform Costing Scope of Uniform Costing Requisites of Uniform Costing Uniform Cost Manual Practical Difficulties Benefits of Uniform Costing Limitations of Uniform Costing Inter-firm Comparison Purpose of Inter-firm Comparison Advantages of Inter-firm Comparison Limitations Exercises Cost Audit Nature of Cost Audit Nature of Cost Audit Objectives of Cost Audit Types of Cost Audit Cost Audit for Managerial Purposes Cost Audit for Individual Customers Cost Audit as Required by a Statute Cost Audit for a Trade Association	E-1.3 E-1.4 E-1.4 E-1.5 E-1.6 E-1.7 E-1.8 E-1.9 E-1.10 E-1.11 E-1.11 E-1.11 E-2.1 E-2.1 E-2.3 E-2.3 E-2.3 E-2.3 E-2.4 E-2.4

	Cost Accounting (Record) Rules	E-2.7
	Cost Audit (Report) Rules	
	Management Audit	E-2.9
	Exercises	E-2.9
E-3.	Mechanisation of Cost Accounting	-3.1 - E-3.14
	Meaning of Mechanisation	
	Need for Mechanisation	E-3 2
	Data and Information	
	Data Processing	
	Integrated Data Processing	
	Punched Card Accounting	
	Electronic Data Processing	
	Analog and Digital Computers	
	Hardware and Software	
	Parts of a Computer	
	Computer Language	
	Binary Number System	
	Computer Coding	
	Flow Chart	
	File Organisation	
	Source Documents	
	Data Storage	
	Secondary Storage Devices	
	Output of a Computer	E-3.9
	Advantages and Limitations	E-3.9
	Exercises	E-3.10
	Section F – Management Accounting	
F.1		
F-1.	Nature and Scope of Management Accounting	F-1.3 – F-1.30
F-1.	Nature and Scope of Management Accounting	F-1.3 - F-1.30 F-1.3
F-1.	Nature and Scope of Management Accounting Accounting as a Language of Communication Users of Accounting Information	F-1.3 – F-1.30 F-1.3
F-1.	Nature and Scope of Management Accounting Accounting as a Language of Communication Users of Accounting Information External and Internal Reporting	F-1.3 – F-1.30 F-1.3 F-1.4 F-1.4
F-1.	Nature and Scope of Management Accounting Accounting as a Language of Communication Users of Accounting Information External and Internal Reporting Management Accounting	F-1.3 – F-1.30 F-1.3 F-1.4 F-1.5
F-1.	Nature and Scope of Management Accounting Accounting as a Language of Communication Users of Accounting Information External and Internal Reporting Management Accounting Dominance of Financial Accounting	F-1.3 – F-1.30
F-1.	Nature and Scope of Management Accounting Accounting as a Language of Communication Users of Accounting Information External and Internal Reporting Management Accounting Dominance of Financial Accounting Emergence of Cost Accounting	F-1.3 - F-1.30 F-1.3 F-1.4 F-1.5 F-1.5 F-1.6
F-1.	Nature and Scope of Management Accounting Accounting as a Language of Communication Users of Accounting Information External and Internal Reporting Management Accounting Dominance of Financial Accounting Emergence of Cost Accounting Emergence of Management Accounting	F-1.3 - F-1.30
F-1.	Nature and Scope of Management Accounting Accounting as a Language of Communication Users of Accounting Information External and Internal Reporting Management Accounting Dominance of Financial Accounting Emergence of Cost Accounting Emergence of Management Accounting Nature and Functions of Management Accounting	F-1.3 - F-1.30 F-1.3 - F-1.4 F-1.4 F-1.5 F-1.6 F-1.7 F-1.7
F-1.	Nature and Scope of Management Accounting Accounting as a Language of Communication Users of Accounting Information External and Internal Reporting Management Accounting Dominance of Financial Accounting Emergence of Cost Accounting Emergence of Management Accounting Nature and Functions of Management Accounting Accountability Concept	F-1.3 - F-1.30
F-1.	Nature and Scope of Management Accounting Accounting as a Language of Communication Users of Accounting Information External and Internal Reporting Management Accounting Dominance of Financial Accounting Emergence of Cost Accounting Emergence of Management Accounting Nature and Functions of Management Accounting Accountability Concept Controllability Concept	F-1.3 - F-1.30 F-1.4 F-1.5 F-1.6 F-1.7 F-1.7 F-1.8 F-1.8 F-1.9
F-1.	Nature and Scope of Management Accounting Accounting as a Language of Communication Users of Accounting Information External and Internal Reporting Management Accounting Dominance of Financial Accounting Emergence of Cost Accounting Emergence of Management Accounting Nature and Functions of Management Accounting Accountability Concept Controllability Concept Interdependency Concept	F-1.3 - F-1.30 F-1.4 F-1.5 F-1.6 F-1.7 F-1.8 F-1.8 F-1.9 F-1.9
F-1.	Nature and Scope of Management Accounting Accounting as a Language of Communication Users of Accounting Information External and Internal Reporting Management Accounting Dominance of Financial Accounting. Emergence of Cost Accounting Emergence of Management Accounting Nature and Functions of Management Accounting Accountability Concept Controllability Concept Interdependency Concept Relevancy Concept	F-1.3 - F-1.30 F-1.4 F-1.5 F-1.6 F-1.7 F-1.8 F-1.8 F-1.9 F-1.9
F-1.	Nature and Scope of Management Accounting Accounting as a Language of Communication Users of Accounting Information External and Internal Reporting Management Accounting Dominance of Financial Accounting. Emergence of Cost Accounting Emergence of Management Accounting Nature and Functions of Management Accounting Accountability Concept Controllability Concept Interdependency Concept Relevancy Concept Reliability Concept	F-1.3 - F-1.30 F-1.4 F-1.5 F-1.6 F-1.7 F-1.8 F-1.8 F-1.9 F-1.9 F-1.9
F-1.	Nature and Scope of Management Accounting Accounting as a Language of Communication Users of Accounting Information External and Internal Reporting Management Accounting Dominance of Financial Accounting. Emergence of Cost Accounting Emergence of Management Accounting Nature and Functions of Management Accounting Accountability Concept Controllability Concept Interdependency Concept Relevancy Concept Reliability Concept Scope of Management Accounting	F-1.3 - F-1.30 F-1.4 F-1.5 F-1.6 F-1.7 F-1.8 F-1.8 F-1.9 F-1.9 F-1.9 F-1.9
F-1.	Nature and Scope of Management Accounting Accounting as a Language of Communication Users of Accounting Information External and Internal Reporting Management Accounting Dominance of Financial Accounting. Emergence of Cost Accounting Emergence of Management Accounting Nature and Functions of Management Accounting Accountability Concept Controllability Concept Interdependency Concept Relevancy Concept Reliability Concept Scope of Management Accounting Financial Accounting	F-1.3 - F-1.30 F-1.4 F-1.5 F-1.6 F-1.7 F-1.8 F-1.8 F-1.9 F-1.9 F-1.9 F-1.9 F-1.11 F-1.11
F-1.	Nature and Scope of Management Accounting Accounting as a Language of Communication Users of Accounting Information External and Internal Reporting Management Accounting Dominance of Financial Accounting Emergence of Cost Accounting Emergence of Management Accounting Nature and Functions of Management Accounting Accountability Concept Controllability Concept Interdependency Concept Relevancy Concept Reliability Concept Scope of Management Accounting Financial Accounting Cost Accounting	F-1.3 - F-1.30 F-1.4 F-1.5 F-1.6 F-1.7 F-1.8 F-1.8 F-1.9 F-1.9 F-1.9 F-1.11 F-1.11
F-1.	Nature and Scope of Management Accounting Accounting as a Language of Communication Users of Accounting Information External and Internal Reporting Management Accounting Dominance of Financial Accounting Emergence of Cost Accounting Emergence of Management Accounting Nature and Functions of Management Accounting Accountability Concept Controllability Concept Interdependency Concept Relevancy Concept Reliability Concept Scope of Management Accounting Financial Accounting Cost Accounting Financial Management	F-1.3 - F-1.30 F-1.4 F-1.5 F-1.6 F-1.7 F-1.8 F-1.9 F-1.9 F-1.9 F-1.11 F-1.11
F-1.	Nature and Scope of Management Accounting Accounting as a Language of Communication Users of Accounting Information External and Internal Reporting Management Accounting Dominance of Financial Accounting Emergence of Cost Accounting Emergence of Management Accounting Nature and Functions of Management Accounting Accountability Concept Controllability Concept Interdependency Concept Relevancy Concept Reliability Concept Scope of Management Accounting Financial Accounting Cost Accounting	F-1.3 - F-1.30 F-1.4 F-1.5 F-1.6 F-1.7 F-1.8 F-1.9 F-1.9 F-1.9 F-1.11 F-1.11
F-1.	Nature and Scope of Management Accounting Accounting as a Language of Communication Users of Accounting Information External and Internal Reporting Management Accounting Dominance of Financial Accounting Emergence of Cost Accounting Emergence of Management Accounting Nature and Functions of Management Accounting Accountability Concept Controllability Concept Interdependency Concept Relevancy Concept Reliability Concept Scope of Management Accounting Financial Accounting Cost Accounting Financial Management	F-1.3 - F-1.30 F-1.4 F-1.5 F-1.6 F-1.7 F-1.8 F-1.8 F-1.9 F-1.9 F-1.11 F-1.11 F-1.11 F-1.11
F-1.	Nature and Scope of Management Accounting Accounting as a Language of Communication Users of Accounting Information External and Internal Reporting Management Accounting Dominance of Financial Accounting. Emergence of Cost Accounting Emergence of Management Accounting Nature and Functions of Management Accounting Accountability Concept Controllability Concept Interdependency Concept Relevancy Concept Reliability Concept Scope of Management Accounting Financial Accounting Cost Accounting Financial Management Statistics	F-1.3 - F-1.30 F-1.4 F-1.5 F-1.6 F-1.7 F-1.8 F-1.8 F-1.9 F-1.9 F-1.11 F-1.11 F-1.11 F-1.11 F-1.11
F-1.	Nature and Scope of Management Accounting Accounting as a Language of Communication Users of Accounting Information External and Internal Reporting Management Accounting Dominance of Financial Accounting Emergence of Cost Accounting Emergence of Management Accounting Nature and Functions of Management Accounting Accountability Concept Controllability Concept Interdependency Concept Relevancy Concept Reliability Concept Scope of Management Accounting Financial Accounting Cost Accounting Financial Management Statistics Engineering	F-1.3 - F-1.30 F-1.4 F-1.5 F-1.6 F-1.7 F-1.8 F-1.8 F-1.9 F-1.9 F-1.11 F-1.11 F-1.11 F-1.11 F-1.11 F-1.12
F-1.	Nature and Scope of Management Accounting Accounting as a Language of Communication Users of Accounting Information External and Internal Reporting Management Accounting. Dominance of Financial Accounting. Emergence of Cost Accounting Emergence of Management Accounting Nature and Functions of Management Accounting Accountability Concept Controllability Concept Interdependency Concept Relevancy Concept Reliability Concept Scope of Management Accounting Financial Accounting Cost Accounting Financial Management Statistics Engineering Taxation	F-1.3 - F-1.30 F-1.4 F-1.5 F-1.6 F-1.7 F-1.8 F-1.8 F-1.9 F-1.9 F-1.11 F-1.11 F-1.11 F-1.11 F-1.12 F-1.12

xxiv

 Nature
 F-1.13

 Scope
 F-1.13

 Object
 F-1.13

 Need
 F-1.13

 Periodicity
 F-1.13

 Principles
 F-1.14

 Contents
 F-1.14

Accuracy	F-1.14
Relationship with Cost Accounting	F-1.14
Origin	
Purpose	F-1.15
Scope	
Installation	F-1.15
Status	F-1.15
Position and Status of Management Accountant	F-1.16
Qualifications of Management Accountant	
His Field of Action	
Tools and Techniques of Management Accounting	F-1.19
Installation of Management Accounting System	
Advantages and Limitations of Management Accounting	
Strategic Management Accounting	
Exercises	
	nion Maline
Section G – Information for Profit Planning and Deci	sion-Making
G-1. Marginal Costing	G-1.3 – G-1.46
Product Costing	
Systems of Product Costing	
Absorption Costing	
Variable Costing	
Absorption Costing and its Features	
Its Features	
Advantages of Absorption Costing	
Limitations of Absorption Costing	G-1.6
Variable Costing	
Need for Variable Costing	
Marginal Costing	G-1.8
Features of Marginal Costing	
Marginal Cost	
Marginal Costing and Variable Costing	G-1.9
Marginal Costing and Direct Costing	G-1.10
Marginal Costing and Differential Costing	
Marginal Costing vs. Absorption Costing	G-1.11
Income Determination Under the Two Techniques	
Impact of the Technique on Profit	
Uses of Marginal Costing	
Advantages of Marginal Costing	
Limitations of Marginal Costing	
Cost Behaviour	
Fixed, Variable and Semi-variable Costs	
Variable Costs	
Fixed Costs	
Semi-variable Costs	
Methods of Segregating Fixed and Variable Elements	
Level of Activity Method	G-1.27

Engineering Estimates	G-1.36
Exercises	
G-2. Cost-Volume-Profit Analysis	G-2 1 - G-2 70
Profit Planning	
CVP Analysis	G-2.1
Assumptions Underlying CVP Analysis	
Practical Application of CVP Analysis	
Limitations of CVP Analysis	
Presentation of CVP Analysis	
Determination of Break-even Point	
Algebraic Method of Determination	
Graphical Method of Determination	
Exercises	
G-3. Managerial Decision-making	C-3 1 - C-3 78
Cost Data for Managerial Decisions	
Meaning of Decision-making	
Types of Managerial Decisions	
Steps Involved in Decision-making	
Problem and its Analysis	د.د
Definition of Objective	
Alternative Solutions	
Evaluation of Alternatives	
Selecting the Best Course and Making it Effective	
Marginal Costing and Decision-making	
Decision-making Costs	
Characteristics	
Relevant Costs for Decision-making	
Incremental Costs	
Differential Costs Analysis	
Characteristics of Differential Cost	
Differential and Marginal Costing	
Similarity	
Difference	
Influence of Limiting Factors	
Decisions Involving Alternative Choice	
Decision to Make or Buy	
Decision to Accept a Special Offer	
Adding or Dropping a Product-line or Department	
Product Pricing Level of Activity Planning	
Profit Planning	
Profitability of Further Processing	
Optimum Use of a Limiting or Key Factor Suitable Product Mix	
Exercises	G-3.45
Section H – Information for Planning and C	Control
H-1. Budgetary Control	Н.1.3 – Н.1.76
Definition of Budget	
Need for Budgeting	
Nature of Budget	H-1 4

	Forecast and Budget	
	Budgeting and Budgetary Control	
	Objectives of Budgetary Control	H-1.6
	Planning	
	Coordination	
	Communication	H-1.7
	Motivation	H-1.7
	Control	
	Performance Evaluation	
	Steps Involved in Budgetary Control	
	Essentials of Budgetary Control System	
	Organisation for Budgetary Control	
	The Master Budget	11-1.10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Advantages of Budgetary Control	
	Limitations of Budgetary Control	
	Functional Budgets	
	Sales Budget	
	Production Budget	
	Materials Purchase Budget	
	Labour Budget	
	Factory Overhead Budget	
	Plant Utilisation Budget	
	Production Cost Budget	H-1.26
	Cost of Goods Sold Budget	H-1.27
	Administration Cost Budget	
	Selling and Distribution Cost Budget	
	Research and Development Cost Budget	H-1.29
	Capital Expenditure Budget	
	The Cash Budget	H-1.30
	Budget Reports	
	Activity-Based Budgeting	
	Incremental and Zero-base Budgeting	
	Fixed and Flexible Budgeting	H ₋ 1 38
	Planning Programming Budgeting	
	Performance Budgeting	
	Control Ratios	
	Case Budget	
	Exercises	H-1.50
H-2.	Responsibility Accounting	H-2.1 – H-2.14
	The Control Function of Management	H-2.1
	Need for Control	
	Organisation Planning	
	Organisation Structure	
	Delegation and Decentralisation	
	Meaning of Responsibility Accounting	
	Responsibility Accounting vs. Cost Accounting	
	Responsibility Centres	п-2.5
	Pre-requisites to Responsibility Accounting	
	Responsibility Reporting	
	Levels of Reporting	H-2.6
	Feedback and Feed-forward Controls	
	Guidelines for Reporting	H-2.7
	Limitations of Responsibility Accounting	
	Divisional Performance Measurement: Financial Measures	
	Significance of Measurement of Divisional Manager's Performance	H-2.13

Difficulty in Measurement of Divisional Manager's Performance H-2 Financial Methods of Evaluation of Divisional Performance H-2 Residual Income Method of Evaluation H-2 Conclusion H-2 Conclusion H-2 Computing Divisional Investment H-2 Transfer Price H-2 Transfer Price Conclusion H-2 Exercises H-2 Exercises H-2 H-3. Standard Costing H-3. H-3.1 - H-3.1 Meaning of 'Standard' and 'Standard Cost' H-3. Standard Costing H-3. Estimated Costs Estimated Costs H-4 Uses of Standard Costs H-5 Distinction between Standard Costs and Estimated Costs H-6 Standard Costing H-7 Distinction between the Two Techniques H-8 Basic Requirements of Standard Costing H-8 Basic Requirements of Standard Costing H-1 Classification of Standards H-1 Distinction between Identify H-1 Basic Standard Costing H-1 Areas Where Standards are Laid Down H-1 Classification of Standard Costing H-1 Basic Standard vs. Current Standard H-3 Basic Standard vs. Current Standard H-3 Basic Standard Standards H-3 Physical Standards Steps incidental to Adoption of Physical Standards H-3 Bases of Fixing Physical Standards H-3 Froblems in the Way of Fixation of Physical Standards H-3 Froblems in the Way of Fixation of Physical Standards H-3 Problems in the Way of Fixation of Physical Standards H-3 Bases of Fixing Physical Standards H-3 Froedure for Setting Material Quality Standards H-3 Brocedure for Setting Material Quality Standards H-3 Physical Standards for Labour H-3 Analysis of Standard Hour H-3 Direct Material Visiance H-3 Direct Material Frice Variance H-3 Direct Material Price Variance H-3 Direct Material Wisiance H-3 Direct Materia		Requirements for Divisional Performance Measurement	H-2.13
Rate of Return on Investment		Difficulty in Measurement of Divisional Manager's Performance	H-2.14
Residual Income Method of Evaluation		Financial Methods of Evaluation of Divisional Performance	H-2.14
Residual Income Method of Evaluation		Rate of Return on Investment	H-2.14
Computing Divisional Investment H-2 Transfer Price H-2 Conclusion H-2 Exercises H-2 H-3. Standard Costing H-3.1 H-3.1 Meaning of 'Standard' and 'Standard Cost' H-1 Need for Standard Costs H-1 Estimated Costs H-1 Estimated Costs H-1 Distinction between Standard Costs and Estimated Costs H-1 Standard Costing S. Budgetary Control H-1 Standard Costing S. Budgetary Control H-1 Distinction between the Two Techniques H-1 Objectives of Standard Costing H-1 Basic Requirements of Standard Costing H-1 Classification of Standards Costing H-1 Distinction between the Bown H-1 Distinction between the Two Techniques H-1 Areas Where Standards are Laid Down H-1 Classification of Standards H-1 Basic Standard vs. Current Standard and Normal Standard H-1 Basic Standard vs. Current Standard H-1 Basic Standard vs. Current Standard H-3 Physical Standards H-3 Steps Incidental to Adoption of Physical Standards H-3 Bases of Fixing Physical Standards H-3 Bases of Fixing Physical Standards H-3 Setting the Various Standards H-3 Froblems in the Way of Fixation of Physical Standards H-3 Froblems in the Way of Fixation of Physical Standards H-3 Standard Cost Committee H-3 The Standards Manual H-3 Procedure for Setting Material Quality Standards H-3 Standard Time H-3 Labour Rate Standards H-3 Overhead Expenses Standards H-3 Direct Material Viralece H-3 Direct Material Viralece H-3 Direct Material Price Volume and Efficiency H-3 Direct Material Price Variance H-3 Direct Material Price Variance H-3 Direct Material Variance		Residual Income Method of Evaluation	H-2.16
Transfer Price		Conclusion	H-2.17
Transfer Price		Computing Divisional Investment	H-2.17
Conclusion			
Exercises			
Meaning of 'Standard' and 'Standard Cost' H- Need for Standard Costs H- Estimated Costs H- Distinction between Standard Costs and Estimated Costs H- Uses of Standard Costs Standard Costs H- Standard Costing B- Standard Costing B- Standard Costing B- Distinction between the Two Techniques H- Objectives of Standard Costing H- Basic Requirements of Standard Costing H- Areas Where Standards are Laid Down H- Classification of Standards B- Distinction between Ideal Standard and Normal Standard H- Basic Standard S- Distinction between Ideal Standard and Normal Standard H- Basic Standard B- Distinction between Ideal Standard and Normal Standard H- Basic Standard S- Steps Incidental to Adoption of Physical Standards H- Bases of Fixing Physical Standards H- Bases tandards H- Bases tand		Exercises	H-2.20
Meaning of 'Standard' and 'Standard Cost' H- Need for Standard Costs H- Estimated Costs H- Distinction between Standard Costs and Estimated Costs H- Uses of Standard Costs Standard Costs H- Standard Costing B- Standard Costing B- Standard Costing B- Distinction between the Two Techniques H- Objectives of Standard Costing H- Basic Requirements of Standard Costing H- Areas Where Standards are Laid Down H- Classification of Standards B- Distinction between Ideal Standard and Normal Standard H- Basic Standard S- Distinction between Ideal Standard and Normal Standard H- Basic Standard B- Distinction between Ideal Standard and Normal Standard H- Basic Standard S- Steps Incidental to Adoption of Physical Standards H- Bases of Fixing Physical Standards H- Bases tandards H- Bases tand			
Meaning of 'Standard' and 'Standard Cost' H- Need for Standard Costs H- Estimated Costs H- Distinction between Standard Costs and Estimated Costs H- Uses of Standard Costs Standard Costs H- Standard Costing B- Standard Costing B- Standard Costing B- Distinction between the Two Techniques H- Objectives of Standard Costing H- Basic Requirements of Standard Costing H- Areas Where Standards are Laid Down H- Classification of Standards B- Distinction between Ideal Standard and Normal Standard H- Basic Standard S- Distinction between Ideal Standard and Normal Standard H- Basic Standard B- Distinction between Ideal Standard and Normal Standard H- Basic Standard S- Steps Incidental to Adoption of Physical Standards H- Bases of Fixing Physical Standards H- Bases tandards H- Bases tand	H-3. Sta	andard Costing H	-3.1 – H-3.116
Estimated Costs		Meaning of 'Standard' and 'Standard Cost'	H-3.2
Distinction between Standard Costs and Estimated Costs H- Uses of Standard Costs H- Standard Costing S. Budgetary Control H- Distinction between the Two Techniques H- Objectives of Standard Costing H- Basic Requirements of Standard Costing H- Areas Where Standards are Laid Down H- Classification of Standards H- Distinction between Ideal Standard and Normal Standard H- Basic Standard S. Current Standard and Normal Standard H- Basic Standard S. Current Standard H- Basic Standard S. Current Standard H- Basic Standard S. Steps Incidental to Adoption of Physical Standards H- Bases of Fixing Physical Standards H- Bases of Fixing Physical Standards H- Steps Incidental to Adoption of Physical Standards H- Bases of Fixing Physical Standards H- Bases of Variance H- Basic Standards H- Bases of Variance H- Basic Standards H- Basic Standards H- Basic Standards H- Basic Standards H- Bases of Variance H- Basic Standards H- B			
Uses of Standard Costing			
Standard Costing vs. Budgetary Control H- Distinction between the Two Techniques H- Objectives of Standard Costing H- Basic Requirements of Standard Costing H- Classification of Standards are Laid Down H- Classification of Standards H- Distinction between Ideal Standard and Normal Standard H- Basic Standard vs. Current Standard H- Basic Standards H- Steps Incidental to Adoption of Physical Standards H- Physical Standards H- Steps Incidental to Adoption of Physical Standards H- Steps Incidental to Adoption of Physical Standards H- Problems in the Way of Fixation of Physical Standards H- Setting the Various Standards H- Standard Cost Committee H- The Standards Manual H- Procedure for Setting Material Quality Standards H- Material Price Standards H- Standard For Labour H- Standard Time H- Standard For Labour H- Abour Rate Standards H- Meaning of Standard Hour H- Jobbing Industries and Standard Costing H- Variance Accounting H- Classification of Variances H- Variance Accounting H- Classification of Variances H- Direct Material Price Variance H- Direct Material Purchase Price Variance H- Direct Material Purchase Price Variance H- Direct Material Purchase Price Variance H- Direct Material Wariance H- Direct Material Wari			
Standard Costing vs. Budgetary Control H- Distinction between the Two Techniques H- Objectives of Standard Costing H- Basic Requirements of Standard Costing H- Areas Where Standards are Laid Down H- Classification of Standards — H- Distinction between Ideal Standard and Normal Standard H- Basic Standard vs. Current Standard H- Basic Standards H- Basic Standards H- Basic Standards H- Basic Standards H- Steps Incidental to Adoption of Physical Standards H- Physical Standards H- Bases of Fixing Physical Standards H- Problems in the Way of Fixation of Physical Standards H- Setting the Various Standards H- Standard Cost Committee H- The Standards Manual H- Procedure for Setting Material Quality Standards H- Physical Standards H- Physical Standards H- Physical Standards H- Base Sta			
Distinction between the Two Techniques HF- Objectives of Standard Costing HF- Basic Requirements of Standard Costing HF- Areas Where Standards are Laid Down HF- Classification of Standards HF- Distinction between Ideal Standard and Normal Standard HF- Basic Standard vs. Current Standard HF- Basic Standards HF- Basic Standards HF- Basic Standards HF- Basic Standards HF- Bases of Fixing Physical Standards HF- Steps Incidental to Adoption of Physical Standards HF- Bases of Fixing Physical Standards HF- Setting the Various Standards HF- Standard Cost Committee HF- The Standards Manual HF- Procedure for Setting Material Quality Standards HF- Material Price Standards HF- Standard Time HF- Standard Time HF- Labour Rate Standards HF- Labour Rate Standards HF- Jober Standard Hour HF- Jobbing Industries and Standard Costing HF- Variance Accounting HF- Cost Variance HF- Variance HF- Variance HF- Material Variances HF- Material Variances HF- Direct Material Price Variance HF- Direct Material Purchase Price Variance HF- Direct Material Visiance HF- Direct Material Wix Variance HF- Dire		Standard Costing	H-3.5
Objectives of Standard Costing H-Basic Requirements of Standard Costing H-Areas Where Standards are Laid Down H-Classification of Standards H-Distinction between Ideal Standard and Normal Standard H-Basic Standard vs. Current Standard H-Basic Standard vs. Current Standard H-3. Physical Standards H-3. Steps Incidental to Adoption of Physical Standards H-3. Bases of Fixing Physical Standards H-3. Problems in the Way of Fixation of Physical Standards H-3. Setting the Various Standards H-3. Standard Cost Committee H-3. The Standards Manual H-3. Procedure for Setting Material Quality Standards H-3. Material Price Standards H-3. Standard Time H-3. Labour Rate Standards H-3. Standard Time H-3. Labour Rate Standards H-3. Overhead Expenses Standards H-3. Meaning of Standard Hour H-3. Jobbing Industries and Standard Costing H-3. Variance Accounting H-3. Cassification of Variances H-3. Analysis of Variances H-3. Direct Material Usage or Quantity Variance H-3. Direct Material Price Variance H-3. Direct Material Wix Variance H-3. Direct Material Mix Variance H-3. Direct Material Mix Variance H-3. Direct Material Wix Variance H-3. Direct Material Wix Variance H-3. Direct Material Mix Variance H-3. Direct Material Wix Variance H-3. Direct Material Mix Variance H-3. Direct Material Mix Variance H-3. Direct Material Wix Variance H-3.			
Basic Requirements of Standard Costing H- Areas Where Standards are Laid Down H- Classification of Standards H- Distinction between Ideal Standard and Normal Standard H- Basic Standard vs. Current Standard H-3 Physical Standards H-3 Steps Incidental to Adoption of Physical Standards H-3 Bases of Fixing Physical Standards H-3 Problems in the Way of Fixation of Physical Standards H-3 Setting the Various Standards H-3 Standard Cost Committee H-3 The Standards Manual H-3 Procedure for Setting Material Quality Standards H-3 Material Price Standards H-3 Standard Time H-3 Labour Rate Standards H-3 Labour Rate Standards H-3 Overhead Expenses Standards H-3 Meaning of Standard Hour H-3 Jobbing Industries and Standard Costing H-3 Valuation of Inventories H-3 Cost Variance H-3 Variance Accounting H-3 Analysis of Variances H-3 Direct Material Price Variance H-3 Direct Material Purchase Price Variance H-3 Direct Material Picle Variance H-3 Direct Material Picled Variance H-3		Distinction between the Two Techniques	H-3.6
Basic Requirements of Standard Costing H- Areas Where Standards are Laid Down H- Classification of Standards H- Distinction between Ideal Standard and Normal Standard H- Basic Standard vs. Current Standard H-3 Physical Standards H-3 Steps Incidental to Adoption of Physical Standards H-3 Bases of Fixing Physical Standards H-3 Problems in the Way of Fixation of Physical Standards H-3 Setting the Various Standards H-3 Standard Cost Committee H-3 The Standards Manual H-3 Procedure for Setting Material Quality Standards H-3 Material Price Standards H-3 Standard Time H-3 Labour Rate Standards H-3 Labour Rate Standards H-3 Overhead Expenses Standards H-3 Meaning of Standard Hour H-3 Jobbing Industries and Standard Costing H-3 Valuation of Inventories H-3 Cost Variance H-3 Variance Accounting H-3 Analysis of Variances H-3 Direct Material Price Variance H-3 Direct Material Purchase Price Variance H-3 Direct Material Picle Variance H-3 Direct Material Picled Variance H-3		Objectives of Standard Costing	H-3.7
Areas Where Standards are Laid Down Classification of Standards Distinction between Ideal Standard and Normal Standard H-Basic Standard vs. Current Standard H-3 Physical Standards H-3 Steps Incidental to Adoption of Physical Standards H-3 Bases of Fixing Physical Standards H-3 Bases of Fixing Physical Standards H-3 Froblems in the Way of Fixation of Physical Standards H-3 Setting the Various Standards H-3 Standard Cost Committee H-3 The Standards Manual H-3 Procedure for Setting Material Quality Standards H-3 Physical Standards H-3 Physical Standards H-3 Standard Time H-3 Labour Rate Standards H-3 Overhead Expenses Standards H-3 Meaning of Standard Hour H-3 Jobbing Industries and Standard Costing H-3 Valuation of Inventories H-3 Cost Variance H-3 Variance Accounting H-3 Variance Accounting H-3 Direct Material Cost Variance H-3 Direct Material Usage or Quantity Variance H-3 Direct Material Purchase Price Variance H-3 Direct Material Purchase Price Variance H-3 Direct Material Purchase Price Variance H-3 Direct Material Usage or Quantity Variance H-3 Direct Material Purchase Price Variance H-3 Direct Material Purchase Price Variance H-3 Direct Material Mix Variance H-3 Direct Material Vield Variance H-3 Direct Material Yield Variance		Basic Requirements of Standard Costing	H-3.8
Distinction between Ideal Standard and Normal Standard Basic Standard vs. Current Standard H-3 Physical Standards H-3 Steps Incidental to Adoption of Physical Standards H-3 Bases of Fixing Physical Standards H-3 Problems in the Way of Fixation of Physical Standards H-3 Setting the Various Standards H-3 Standard Cost Committee H-3 The Standards Manual H-3 Procedure for Setting Material Quality Standards H-3 Material Price Standards H-3 Standard Time H-3 Labour Rate Standards H-3 Overhead Expenses Standards H-3 Meaning of Standard Hour H-3 Jobbing Industries and Standard Costing H-3 Variance Accounting Classification of Variances H-3 Analysis of Variances H-3 Direct Material Cost Variance H-3 Direct Material Usage or Quantity Variance H-3 Direct Material Purchase Price Variance H-3 Direct Material Usage or Quantity Variance H-3 Direct Material Usage or Quantity Variance H-3 Direct Material Purchase Price Variance H-3 Direct Material Usage or Quantity Variance H-3 Direct Material Purchase Price Variance H-3 Direct Material Usage or Quantity Variance H-3 Direct Material Wariance H-3 Direct Material Wis Variance H-3 Direct Material Visel Variance			
Distinction between Ideal Standard and Normal Standard Basic Standard vs. Current Standard H-3 Physical Standards H-3 Steps Incidental to Adoption of Physical Standards H-3 Bases of Fixing Physical Standards H-3 Problems in the Way of Fixation of Physical Standards H-3 Setting the Various Standards H-3 Standard Cost Committee H-3 The Standards Manual H-3 Procedure for Setting Material Quality Standards H-3 Material Price Standards H-3 Standard Time H-3 Labour Rate Standards H-3 Overhead Expenses Standards H-3 Meaning of Standard Hour H-3 Jobbing Industries and Standard Costing H-3 Variance Accounting Classification of Variances H-3 Analysis of Variances H-3 Direct Material Cost Variance H-3 Direct Material Usage or Quantity Variance H-3 Direct Material Purchase Price Variance H-3 Direct Material Usage or Quantity Variance H-3 Direct Material Usage or Quantity Variance H-3 Direct Material Purchase Price Variance H-3 Direct Material Usage or Quantity Variance H-3 Direct Material Purchase Price Variance H-3 Direct Material Usage or Quantity Variance H-3 Direct Material Wariance H-3 Direct Material Wis Variance H-3 Direct Material Visel Variance		Classification of Standards	H-3.9
Physical Standards H-3 Steps Incidental to Adoption of Physical Standards H-3 Bases of Fixing Physical Standards H-3 Problems in the Way of Fixation of Physical Standards H-3 Setting the Various Standards H-3 Setting the Various Standards H-3 The Standard Cost Committee H-3 The Standards Manual H-3 Procedure for Setting Material Quality Standards H-3 Material Price Standards H-3 Material Price Standards H-3 Standard Time H-3 Labour Rate Standards H-3 Overhead Expenses Standards H-3 Meaning of Standard Hour H-3 Jobbing Industries and Standard Costing H-3 Valuation of Inventories H-3 Cost Variance H-3 Variance Accounting H-3 Variance Accounting H-3 Variances of Price, Volume and Efficiency H-3 Material Variances H-3 Direct Material Price Variance H-3 Direct Material Price Variance H-3 Direct Material Price Variance H-3 Direct Material Usage or Quantity Variance H-3 Direct Material Purchase Price Variance H-3 Direct Material Usage or Quantity Variance H-3 Direct Material Pixele Variance H-3 Direct Material Usage or Quantity Variance H-3 Direct Material Pixele Variance H-3 Direct Material His Variance H-3 Direct Material Wix Variance H-3		Distinction between Ideal Standard and Normal Standard	H-3.9
Physical Standards H-3 Steps Incidental to Adoption of Physical Standards H-3 Bases of Fixing Physical Standards H-3 Problems in the Way of Fixation of Physical Standards H-3 Setting the Various Standards H-3 Setting the Various Standards H-3 The Standard Cost Committee H-3 The Standards Manual H-3 Procedure for Setting Material Quality Standards H-3 Material Price Standards H-3 Material Price Standards H-3 Standard Time H-3 Labour Rate Standards H-3 Overhead Expenses Standards H-3 Meaning of Standard Hour H-3 Jobbing Industries and Standard Costing H-3 Valuation of Inventories H-3 Cost Variance H-3 Variance Accounting H-3 Variance Accounting H-3 Variances of Price, Volume and Efficiency H-3 Material Variances H-3 Direct Material Price Variance H-3 Direct Material Price Variance H-3 Direct Material Price Variance H-3 Direct Material Usage or Quantity Variance H-3 Direct Material Purchase Price Variance H-3 Direct Material Usage or Quantity Variance H-3 Direct Material Pixele Variance H-3 Direct Material Usage or Quantity Variance H-3 Direct Material Pixele Variance H-3 Direct Material His Variance H-3 Direct Material Wix Variance H-3		Basic Standard vs. Current Standard	H-3.10
Steps Incidental to Adoption of Physical Standards H-3 Bases of Fixing Physical Standards H-3 Problems in the Way of Fixation of Physical Standards H-3 Setting the Various Standards H-3 Standard Cost Committee H-3 The Standards Manual H-3 Procedure for Setting Material Quality Standards H-3 Material Price Standards H-3 Physical Standards for Labour H-3 Standard Time H-3 Labour Rate Standards H-3 Overhead Expenses Standards H-3 Meaning of Standard Hour H-3 Jobbing Industries and Standard Costing H-3 Valuation of Inventories H-3 Cost Variance H-3 Variance Accounting H-3 Classification of Variances H-3 Direct Material Cost Variance H-3 Direct Material Price Variance H-3 Direct Material Price Variance H-3 Direct Material Purchase Price Variance H-3 Analysis of Material Usage or Quantity Variance H-3 Direct Material Purchase Price Variance H-3 Direct Material Purchase Price Variance H-3 Direct Material Direct Variance H-3 Direct Material Direct Variance H-3 Direct Material Purchase Price Variance H-3 Direct Material Purchase Price Variance H-3 Direct Material Mix Variance H-3 Direct Material Yield Variance H-3 Direct Material Yield Variance			
Bases of Fixing Physical Standards H-3 Problems in the Way of Fixation of Physical Standards H-3 Setting the Various Standards H-3 Standard Cost Committee H-3 The Standards Manual H-3 Procedure for Setting Material Quality Standards H-3 Material Price Standards H-3 Material Price Standards H-3 Physical Standards for Labour H-3 Standard Time H-3 Labour Rate Standards H-3 Overhead Expenses Standards H-3 Meaning of Standard Hour H-3 Jobbing Industries and Standard Costing H-3 Valuation of Inventories H-3 Cost Variance H-3 Variance Accounting H-3 Classification of Variances H-3 Material Variances H-3 Direct Material Cost Variance H-3 Direct Material Price Variance H-3 Direct Material Price Variance H-3 Direct Material Price Variance H-3 Analysis of Material Usage or Quantity Variance H-3 Direct Material Purchase Price Variance H-3 Analysis of Material Usage or Quantity Variance H-3 Direct Material Purchase Price Variance H-3 Direct Material Mix Variance H-3 Direct Material Yield Variance H-3			
Problems in the Way of Fixation of Physical Standards H-3 Setting the Various Standards H-3 Standard Cost Committee H-3 The Standards Manual H-3 Procedure for Setting Material Quality Standards H-3 Material Price Standards H-3 Material Price Standards H-3 Standard Time H-3 Labour Rate Standards H-3 Overhead Expenses Standards H-3 Meaning of Standard Hour H-3 Jobbing Industries and Standard Costing H-3 Valuation of Inventories H-3 Cost Variance H-3 Variance Accounting H-3 Classification of Variances H-3 Material Variances H-3 Material Variances H-3 Direct Material Cost Variance H-3 Direct Material Price Variance H-3 Direct Material Usage or Quantity Variance H-3 Analysis of Material Usage or Quantity Variance H-3 Direct Material Mix Variance H-3 Analysis of Material Usage or Quantity Variance H-3 Direct Material Mix Variance H-3 Direct Material Yield Variance H-3 Direct Material Yield Variance		Bases of Fixing Physical Standards	H-3.12
Setting the Various Standards H-3 Standard Cost Committee H-3 The Standards Manual H-3 Procedure for Setting Material Quality Standards H-3 Material Price Standards H-3 Material Price Standards H-3 Physical Standards for Labour H-3 Standard Time H-3 Labour Rate Standards H-3 Overhead Expenses Standards H-3 Meaning of Standard Hour H-3 Jobbing Industries and Standard Costing H-3 Valuation of Inventories H-3 Cost Variance H-3 Cost Variance H-3 Variance Accounting H-3 Classification of Variances H-3 Analysis of Variances H-3 Material Variances H-3 Material Variances H-3 Direct Material Cost Variance H-3 Direct Material Price Variance H-3 Direct Material Purchase Price Variance H-3 Direct Material Usage or Quantity Variance H-3 Direct Material Usage or Quantity Variance H-3 Direct Material Wariance H-3 Direct Material Usage or Quantity Variance H-3 Direct Material Wariance H-3 Direct Material Wis Variance H-3 Direct Material Wis Variance H-3 Direct Material Yield Variance H-3 Direct Material Yield Variance H-3		Problems in the Way of Fixation of Physical Standards	H-3.12
Standard Cost Committee H-3 The Standards Manual H-3 Procedure for Setting Material Quality Standards H-3 Material Price Standards H-3 Physical Standards H-3 Physical Standards for Labour H-3 Standard Time H-3 Labour Rate Standards H-3 Overhead Expenses Standards H-3 Meaning of Standard Hour H-3 Jobbing Industries and Standard Costing H-3 Valuation of Inventories H-3 Cost Variance H-3 Variance Accounting H-3 Classification of Variances H-3 Analysis of Variances H-3 Material Variances H-3 Direct Material Cost Variance H-3 Direct Material Usage or Quantity Variance H-3 Direct Material Purchase Price Variance H-3 Direct Material Usage or Quantity Variance H-3 Direct Material Usage or Quantity Variance H-3 Direct Material Usage or Quantity Variance H-3 Direct Material Wariance H-3 Direct Material Usage or Quantity Variance H-3 Direct Material Wariance H-3 Direct Material Wis Variance H-3 Direct Material Wis Variance H-3 Direct Material Yield Variance H-3			
The Standards Manual Procedure for Setting Material Quality Standards H-3 Material Price Standards H-3 Material Price Standards H-3 Physical Standards for Labour Standard Time H-3 Labour Rate Standards H-3 Overhead Expenses Standards H-3 Meaning of Standard Hour H-3 Jobbing Industries and Standard Costing H-3 Valuation of Inventories H-3 Cost Variance H-3 Variance Accounting Classification of Variances H-3 Analysis of Variances H-3 Material Variances H-3 Direct Material Price Variance H-3 Direct Material Price Variance H-3 Direct Material Price Variance H-3 Analysis of Material Usage or Quantity Variance H-3 Direct Material Mix Variance H-3 Direct Material Yield Variance H-3 Direct Material Yield Variance		Standard Cost Committee	H-3.13
Procedure for Setting Material Quality Standards H-3 Material Price Standards H-3 Physical Standards for Labour H-3 Standard Time H-3 Labour Rate Standards H-3 Overhead Expenses Standards H-3 Meaning of Standard Hour H-3 Jobbing Industries and Standard Costing H-3 Valuation of Inventories H-3 Cost Variance H-3 Variance Accounting H-3 Classification of Variances H-3 Analysis of Variances H-3 Direct Material Cost Variance H-3 Direct Material Price Variance H-3 Direct Material Purchase Price Variance H-3 Direct Material Wariance H-3 Direct Material Wariance H-3 Direct Material Wariance H-3 Direct Material Mix Variance H-3 Direct Material Mix Variance H-3 Direct Material Mix Variance H-3 Direct Material Yield Variance H-3 Direct Material Yield Variance H-3			
Material Price Standards			
Physical Standards for Labour H-3 Standard Time H-3 Labour Rate Standards H-3 Overhead Expenses Standards H-3 Meaning of Standard Hour H-3 Jobbing Industries and Standard Costing H-3 Valuation of Inventories H-3 Cost Variance H-3 Variance Accounting H-3 Classification of Variances H-3 Analysis of Variances H-3 Analysis of Variances H-3 Direct Material Cost Variance H-3 Direct Material Price Variance H-3 Direct Material Usage or Quantity Variance H-3 Analysis of Material Usage or Quantity Variance H-3 Direct Material Mix Variance H-3 Direct Material Yield Variance H-3 Direct Material Yield Variance H-3			
Standard Time			
Labour Rate Standards H-3 Overhead Expenses Standards H-3 Meaning of Standard Hour H-3 Jobbing Industries and Standard Costing H-3 Valuation of Inventories H-3 Cost Variance H-3 Variance Accounting H-3 Classification of Variances H-3 Analysis of Variances H-3 Variances of Price, Volume and Efficiency H-3 Material Variances H-3 Direct Material Cost Variance H-3 Direct Material Price Variance H-3 Direct Material Usage or Quantity Variance H-3 Direct Material Purchase Price Variance H-3 Analysis of Material Usage or Quantity Variance H-3 Direct Material Usage or Quantity Variance H-3 Direct Material Usage or Quantity Variance H-3 Direct Material Mix Variance H-3 Direct Material Mix Variance H-3 Direct Material Mix Variance H-3 Direct Material Yield Variance H-3 Direct Material Yield Variance H-3			
Overhead Expenses Standards H-3 Meaning of Standard Hour H-3 Jobbing Industries and Standard Costing H-3 Valuation of Inventories H-3 Cost Variance H-3 Variance Accounting H-3 Classification of Variances H-3 Analysis of Variances H-3 Variances of Price, Volume and Efficiency H-3 Material Variances H-3 Direct Material Cost Variance H-3 Direct Material Price Variance H-3 Direct Material Usage or Quantity Variance H-3 Direct Material Purchase Price Variance H-3 Analysis of Material Usage or Quantity Variance H-3 Direct Material Mix Variance H-3 Direct Material Yield Variance H-3 Direct Material Yield Variance H-3			
Meaning of Standard Hour H-3 Jobbing Industries and Standard Costing H-3 Valuation of Inventories H-3 Cost Variance H-3 Variance Accounting H-3 Classification of Variances H-3 Analysis of Variances H-3 Variances of Price, Volume and Efficiency H-3 Material Variances H-3 Direct Material Cost Variance H-3 Direct Material Price Variance H-3 Direct Material Usage or Quantity Variance H-3 Direct Material Purchase Price Variance H-3 Analysis of Material Usage or Quantity Variance H-3 Direct Material Usage or Quantity Variance H-3 Direct Material Usage or Quantity Variance H-3 Direct Material Mix Variance H-3 Direct Material Mix Variance H-3 Direct Material Mix Variance H-3 Direct Material Yield Variance H-3			
Jobbing Industries and Standard Costing		Meaning of Standard Hour	H-3.17
Valuation of Inventories		Jobbing Industries and Standard Costing	H-3.17
Cost Variance H-3 Variance Accounting H-3 Classification of Variances H-3 Analysis of Variances H-3 Variances of Price, Volume and Efficiency H-3 Material Variances H-3 Direct Material Cost Variance H-3 Direct Material Price Variance H-3 Direct Material Usage or Quantity Variance H-3 Direct Material Purchase Price Variance H-3 Analysis of Material Usage or Quantity Variance H-3 Direct Material Mix Variance H-3 Direct Material Yield Variance H-3			
Variance Accounting H-3 Classification of Variances H-3 Analysis of Variances H-3 Variances of Price, Volume and Efficiency H-3 Material Variances H-3 Direct Material Cost Variance H-3 Direct Material Price Variance H-3 Direct Material Usage or Quantity Variance H-3 Direct Material Purchase Price Variance H-3 Analysis of Material Usage or Quantity Variance H-3 Direct Material Mix Variance H-3 Direct Material Mix Variance H-3 Direct Material Mix Variance H-3 Direct Material Yield Variance H-3			
Classification of Variances			
Analysis of Variances			
Variances of Price, Volume and Efficiency H-3. Material Variances H-3. Direct Material Cost Variance H-3. Direct Material Price Variance H-3. Direct Material Usage or Quantity Variance H-3. Direct Material Purchase Price Variance H-3. Analysis of Material Usage or Quantity Variance H-3. Direct Material Mix Variance H-3. Direct Material Mix Variance H-3. Direct Material Yield Variance H-3.			
Material Variances			
Direct Material Cost Variance			
Direct Material Price Variance			
Direct Material Usage or Quantity Variance			
Direct Material Purchase Price Variance			
Analysis of Material Usage or Quantity Variance			
Direct Material Mix Variance		Analysis of Material Usage or Quantity Variance	H_Q 96
Direct Material Yield Variance		Direct Material Mix Variance	шола иола
		Labour Variances	П-З.∠ <i>I</i> Н_З ЗЗ

	Direct Labour Cost Variance	H-3.33
	Direct Labour Rate Variance	H-3.33
	Direct Labour Efficiency Variance	H-3.34
	Material and Labour Variances	
	Overhead Variances	
	Overhead Cost Variance	
	Variable Overhead Cost Variance	
	Variable Overhead Expenditure Variance	
	Variable Overhead Expenditure variance	
	Fixed Overhead Variances	
	Fixed Overhead Expenditure Variance	
	Fixed Overhead Volume Variance	
	Fixed Overhead Efficiency Variance	П-3.40
	Fixed Overhead Capacity Variance	
	Fixed Overhead Calendar Variance	
	Sales Variances	
	Methods of Computation	
	Sales Value Method	
	Segregation of Sales Volume Variance	
	Sales Quantity Variance	
	Sales Mix Variance	
	Sales Margin or Profit Method	H-3.68
	Sales Margin Price Variance	H-3.68
	Sales Margin Volume Variance	H-3.68
	Segregation of Volume Variance	
	Flexible Budgeting and Standard Costing	
	Reporting of Variances	
	Standard Cost Reports	
	Profit Reconciliation Statement	
	Variance Analysis Reports	
	Control Ratios	
	Accounting Treatment of Variances	
	Transfer to Profit and Loss Account	
	Apportionment to Inventories and Cost of Sales	H-3.83
	Transfer to a Reserve Account	
	Revision of Standards	
	Revision Variance	
	Methods Variance	
	Types of Accounting for Standard Costs	
	Partial Plan	
	Single Plan	
	Accounting Entries	H-3.85
	Dual Plan	H-3.86
	Advantages of Standard Costing	H-3.87
	Limitations of Standard Costing	
	Exercises	
H-4.	Cost Control and Cost Reduction H	4.1 - H-4.12
	Meaning of Cost Control	H-4.1
	Features of Cost Control	
	Techniques of Cost Control	
	Cost Reduction	
	Cost Control and Cost Reduction	
	Cost Reduction Process	
	Areas of Application	
	Product Design	
	Troduct Design	11-4.0

	Factory Organisation and Production Methods	H-4.5
	Administration	H-4.5
	Personnel	H-4.6
	Marketing	
	Finance	
	Benefits of Cost Reduction	
	Cost Management	
	Target Costing	
	Value Analysis	
	Value EngineeringValue Chain Analysis	
	Business Process Reengineering (BPR)	
	Exercises	
H-5. I	Management Reporting	
	Cost Presentation	
	Management Information System	
	Objectives of Management Information System	
	Levels of Reporting	
	Types of Reports	
	Modes of Presentation	
	Reports to Different Levels	
	Exercises	
	Appendix	
]	Emerging Trends in Cost Accounting	A-1 – A-12
	University Question Papers	
'	Madras University, November 2014	
		QP-1
	Madras University, November 2015	QP-12
	Madras University, November 2016	QP-23
	Madras University, November 2017	QP-31
	Madras University, November 2018	QP-40
	Madras University, Elements of Cost Accounting, November 2020	QP-49
	Madras University, Cost Accounting, November 2020	QP-51
	Madras University, Elements of Cost Accounting, November 2021	QP-53
	Madras University, Cost Accounting, April 2021	QP-56
	Osmania University, November/December 2019	QP-59
	Bangalore University, May/June 2019	QP-62
	Bangalore University, December 2019	QP-65
	Bangalore University, March/April 2022	QP-68
	Saraswathi Narayana College,	
	(Affiliated to Madurai Kamaraj University), April 2022	QP-71

Snapshot of the Book

SS

	Solved Illustration	Objective Type Questions	Theoritical Questions	Practical Guestions
Section A - Principles and Concepts				
A-1. Cost Concepts, Procedures, Methods and Techniques	10	140	92	_
Section B - Elements of Cost	10	110	02	
B-1. Materials – Purchase Control		41	19	
	28	92		37
B-2. Materials – Storage and Issue Control	1	1	68	
B-3. Materials – Costing Receipts and Issues	28	55	14	47
B-4. Materials – Material Losses	-	35	15	3
B-5. Materials – Tools, Patterns, Designs, Blue-Prints and Packing Materials	-	-	4	_
B-6. Labour – Labour Cost Control	5	140	58	5
B-7. Labour – Labour Cost Accounting	55	119	31	60
B-8. Chargeable Expenses	_	_	5	_
B-9. Overheads – Manufacturing	49	174	69	76
B-10. Overheads – Administration, Selling and Distribution	4	113	11	3
Section C – Methods of Costing				
C-1. Job Costing	9	46	14	8
C-2. Contract Costing	23	66	29	44
0	35	80	28	81
C-3. Process Costing				
C-4. Joint Product and By-Product Costing	18	71	13	18
C-5. Unit Costing	22	34	11	43
C-6. Operating Costing	22	55	10	39
C-7. Operation Costing	3	24	9	4
Section D - Cost Book Keeping				
D-1. Cost Book Keeping and Reconciliation of Cost and Financial Accounts	19 5	97 24	25 17	41 10
Section E – Miscellaneous				
E-1. Uniform Costing	_	57	14	_
E-2. Cost Audit	_	75	16	_
E-3. Mechanisation of Cost Accounting		77	10	
		''	10	
Section F - Management Accounting		101	40	
F-1. Nature and Scope of Management Accounting	_	121	48	_
Section G – Information for Profit Planning and Decision Making				
G-1. Marginal Costing	17	127	29	14
G-2. Cost-Volume-Profit Analysis	40	82	32	63
G-3. Managerial Decision-Making	34	143	17	70
Section H - Information for Planning and Control				
H-1. Budgetary Control	25	156	83	53
H-2. Responsibility Accounting	3	39	15	
H-3. Standard Costing	42	170	44	72
H-4. Cost Control and Cost Reduction		57	9	'-
H-5. Management Reporting		43	15	_
	_	4-3	15	_
Appendix - Emerging Trends in Cost Accounting University Question Papers				
University Question Papers		0 = 05	874	791
Total	496	2.503		

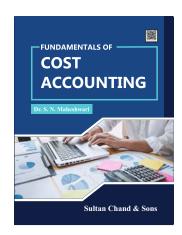
Fundamentals of

Cost Accounting

Dr. S.N. Maheshwari

About the Book

The book is best suited for Integrated Professional Competence Examination of Institute of Chartered Accountants of India and other similar courses. The present book deals with Section A of the syllabus for the paper, "Cost Accounting and Financial Management" by the institute. It covers comprehensively the course content requirements of the students appearing in B.Com., B.B.A. (as per NEP) of all Indian Universities and other Professional Courses.



Salient Features

- The book has been written in simple, straight and lucid style
- The book contains problems from different professional examinations conducted by different professional bodies
- The text matter has been accompanied with adequate illustrative material which makes the subject matter interesting and easiely understandable.
- The book contains up-to-date previous examination Question Papers with Solutions.

Contents

Section A

- Cost Accounting: Meaning & Scope
- Basic Cost Concepts
- Material Cost Control
- Valuation of Materials
- Material Losses
- Labour Cost Control
- Labour Remuneration
- Direct Expenses
- Overheads: General
- Overheads: Distribution
- Single, Unit or Output Costing
- · Job & Batch Costing
- Contract Costing
- · Process Costing
- Operation Costing
- Operating or Service Costing
- Non-Integral System of Accounting
- Integral System of Accounting
- Reconciliation of Cost and Financial Account

Section B

- · Cost Control and Cost Reduction
- Uniform Costing & Inter-Firm Comparison
- · Cost Records and Cost Audit
- Activity Based Costing

Section C

- Budgetary Control & Performance Measurement
- Standard Costing
- Variance Analysis
- Marginal Costing and Profit Planning
- Decisions Involving Alternative Choices

Emerging Trends in Cost Accounting University Question Papers (2017-2022)

Edition: 4th, 2023; Pages: xvi + 876; Size: 185 × 240 mm; ISBN: 978-81-8054-595-5 (TC 1101)

Principles of

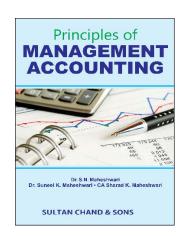
Management Accounting

Dr. S.N. Maheshwari

Dr Suneel K. Maheshwari • CA Sharad K. Maheshwari

About the Book

The book provides a comprehensive coverage of the course-content requirements of the students appearing the paper 'Management Accounting' at the B.Com., M.Com., BBA and MBA Examinations of different Indian Universities. The book has been divided into THREE Convenient Sections. Each Section covers a different aspect of



'Management Accounting' with the subject divided into chapters covering different topics in a systematic and concise manner.

The unique features of this book lie in its simplicity of style and systematic presentation of theory and graded practical illustrations which have made it user friendly mainly the students. The other main strengths of this book are: exhaustive text, plentiful illustrative examples and end-of-the-chapter exercises with answers.

Salient Features

- Updated position regarding, IFRSs and steps for their convergence in India.
- Certain new concepts viz., Target Costing, Kaizen Costing and Balanced Scorecard have been incorporated in Chapter 3 (Section A) and Appendix 1 of the book.
- Schedule III regarding presentation of financial statements as per the Companies Act, 2013 has been incorporated as an Appendix 5 to the book.

Contents

Section A: Fundamentals

- Management Accounting: Nature and Scope
- Financial Accounting Principles
- Basic Cost Concepts
- · Activity Based Costing

Section B: Financial Analysis

- Financial Statements: Analysis and Interpretation
- Ratio Analysis
- Funds Flow Analysis
- Cash Flow Analysis

Section C: Planning & Control

- · Budgetary Control
- Standard Costing
- Variance Analysis
- Marginal Costing and Profit Planning

- Decisions Involving Alternative Choices
- Pricing Decisions & Divisional Performance
- · Basics of Capital Budgeting
- Risk Analysis in Capital Budgeting
- Management Reporting

Section D: Appendices

- Appendix 1: Balanced Scorecard
- Appendix 2: Present Value of ₹ 1
- Appendix 3: Present Value of ₹ 1 Received annually for N Years
- Appendix 4: Compound Value of ₹ 1
- Appendix 5: Presentation of Financial Statements

University Question Papers

Subject Index

Author Index

Edition: 18th, 2021; Pages: xxviii + 736; Size: 170 × 240 mm; ISBN: 978-93-5161-178-3 (TC 091)

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106