

Accountant's Guide to Computers and Information Technology

3rd Edition

Table of Contents

Chapter 1 – Accounting Information Systems and Packages	1
Learning Objectives	1
Introduction.....	1
Accounting Information Systems.....	1
Online Accounting Systems	2
Accounting Software	2
Module Descriptions	3
Market Leaders.....	4
High-End	4
Mid-Level.....	5
Low-End	5
Selecting Accounting Software.....	5
Write-Up Software	6
Compliance Software.....	6
Tax Preparation Software	8
Market Leaders.....	8
Audit Software	8
Auditing Audit Software.....	9
Spreadsheets	9
Major Players.....	10
Web-Based Accounting Systems	10
Implementing Web-Based Accounting Systems	10
Extensible Business Reporting Language (XBRL).....	12
How Companies Create XBRL Statements	13
Applications of XBRL	13
Review Questions.....	14
Review Answers	15
 Chapter 2 – Computer Software in Managerial Accounting	 17
Learning Objectives	17
Introduction.....	17
Activity-Based Costing (ABC) Software	17
Cash Flow Forecasting Software.....	17
Forecasting and Statistical Software	18
Templates.....	18
Add-Ins.....	18
Stand-Alone Programs.....	18
Budgeting and Planning Software	18
Project Planning and Management.....	19
Linear Programming	19
A Caveat.....	19
Selecting a Software Package	20
Checklist.....	21
Review Questions.....	23
Review Answers	24
 Chapter 3 – Information Security and Data Protection	 25
Learning Objectives	25
Introduction.....	25
Computer System Failures.....	26
Establishing a Security Policy	26
Physical Security and Data Security	28
Wires and Cables	29
Destroying Data.....	29

Table of Contents

Environmental Considerations	30
Maintenance and Preventive Care	30
Water Alert Systems	31
Static Electricity	31
Humidity Control	31
Fire Protection	31
Hardware Security	35
Software Development Security	35
Password Security	36
Audit Trail	37
The Security Administrator	37
Disaster Recovery	37
Contingency Planning	38
Legal Issues	38
Review Questions	41
Review Answers	42
Chapter 4 – The Accountant and the Networked Environment	43
Learning Objectives	43
Introduction	43
Client/Servers	43
Changing Technology	44
Cloud Computing	44
Technology Benefits	45
Business Benefits	45
Things to Consider Before Moving to Cloud-Based Services	46
Specific Applications and Examples	46
Future Trends	47
Network and Internet Security Concerns	48
Network Security	48
Internet Security Threats	50
Different Types of Internet Threats	51
Review Questions	53
Review Answers	54
Chapter 5 – The Accountant and Database Managements Systems.....	55
Learning Objectives	55
Introduction	55
Database Management System (DBMS)	55
Database Security	57
Database Types and Terminology	58
Classification	58
Object Databases	58
Distributed Database Management Systems	58
Hierarchical Databases	58
Multimedia Databases	59
Multidimensional Databases	59
Data Warehousing	59
Data Marts	60
Data Modeling	60
Link Analysis	61
Knowledge Discovery	61
Market Based Analysis	61
Memory-Based Reasoning	61
Data Mining	62
Fuzzy Search	63
Online Analytical Processing	64

Table of Contents

Online Transaction Processing.....	64
Genetic Algorithms	65
Decision Trees.....	65
Personal Information Agents.....	65
Review Questions.....	66
Review Answers	67
Chapter 6 – Information Systems and Financial Analysis.....	69
Learning Objectives	69
Introduction.....	69
Evaluating Technical Investments	69
What are the Types of Investment Projects?	69
What are the Features of Investment Projects?	69
Understanding the Concept of Time Value of Money.....	69
How Do You Measure Investments in Technology?.....	70
Payback Period	70
Net Present Value.....	70
Internal Rate of Return.....	70
How Do Income Taxes Affect Investment Decisions?.....	71
How to Calculate After-Tax Cash Flows	71
How Does MACRS Affect Investment Decisions?.....	72
What to Know About the Cost of Capital.....	75
Cost of Debt	75
Cost of Common Stock	76
Cost of Retained Earnings	76
Measuring the Overall Cost of Capital.....	76
Lease-Purchase Decisions	77
Economic Feasibility Study for a New Information System.....	78
Initial Cash Outlay and Operating Costs.....	79
Summary.....	82
Review Questions.....	83
Review Answers	84
Glossary.....	85
Index	91