TEST BANK To Accompany

COMPUTERS & INFORMATION SYSTEMS

Tools for an Information Age



CAPRON PERRON

THIRD EDITION

Shelly Langman

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Computers & Information Systems

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Third Edition

Shelly Langman

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Preface

This Test Bank is written to accompany the third edition of Computers and Information Systems: Tools for an Information Age. The Test Bank contains over 1900 questions, consisting of approximately 500 Multiple Choice, 600 True/False, 350 Matching, 425 Fill-In-The-Blank, and 36 Essay questions.

Within each question format, the questions are presented in the same sequence used by the companion textbook. This allows the instructor to easily identify sections that should be emphasized or omitted.

The Answer Key for the Test Bank is incorporated within the Text Bank itself; the answer for each question is located to the left of the question. The page number locating the source of the question in the textbook is provided in square brackets between the answer and the question. When an answer spans more than one page, only the first page is identified.

The Annotated Instructor's Edition of the textbook provides cross references to the Test Bank. In every chapter of the Annotated Instructor's Edition, the Test Bank questions for each section are listed in the margin. If an instructor skips a section of a chapter, it is easy to see which Test Bank questions should be omitted.

Each chapter of this Test Bank includes far more questions than any instructor would use in a single test. This comprehensiveness allows the instructor to vary tests from term to term and to provide alternate forms of tests for different sections of a course, make-up exams, and so forth.

However, should an instructor want to prepare an exam by photocopying the Test Bank without change, the answers and page references can easily be hidden by covering the left side of the page with a sheet of paper while copying. If this approach is used, it is suggested that students use a separate answer sheet.

This Test Bank is also available in a computerized format for the IBM PC (and compatibles), IBM PS/2, and Apple Macintosh. Ask your Benjamin/Cummings representative for more information, or call toll-free 1-800-950-2665.

Shelly Langman

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CHAPTER 1

Overview of a Computer System: Hardware, Software, and People

Ar	iswers	MU	JLTIPLE CHOICE		
c	[24]	1.	The equipment associated a. the CPU b. console		hardware
a	[24]	2.	Software that is put to us software.	se to solve pa	rticular problems is called
			a. applicationsb. end-user		practical operation
b	[24]	3.	A computer programmer	is a person	who:
			a. fixes the CPU	c.	trains users
			b. writes programs	d.	all of these answers
d	[25]	4.	The is more f	formally know	wn as the CPU:
			a. disk drive	-	console
			b. memory	d.	processor
a	a [27] 5. The electronic circuitry that tem instructions is called:		hat temporari	ily stores the data and	
			a. memory	c.	disk drive
			b. CPU	đ.	keyboard
с	[27]	6.	devices store	additional d	ata and programs.
			a. Memory	c.	
			b. Processing	d.	Console
с	[27]	7.	The data that you put in called:	to the compu	ter system for processing is
			a. Information	c.	Input
			b Instructions		Programs
a	[27]	8.	A "echoes" w screen in front of you.	hat you type	by displaying it on the
			a. keyboard	c.	wand reader
			b. scanner	d.	mouse

d	[28] 9. A is a device that is moved by hand over a flat s			ed by hand over a flat surface	
			a. keyboard	c.	wand reader
			b. scanner	d.	mouse
b	[28]	10.	Voice input systems are also		
			 a. speech identification 	c.	speech input
			b. speech recognition		
c	[28]	11.	A uses laser bear or symbols.	ams to "rea	ad" special letters, numbers,
			a. keyboard	c.	wand reader
			b. scanner	d.	mouse
b	[28]	12.	A can be used t transfer into digital form.	o capture	photos, art, and text for
			a. keyboard	c.	wand reader
			b. scanner	d.	mouse
b	[29]	13.	A includes an ir connection to the main com		ce, an output device, and a
			a. console	c.	disk drive
			b. terminal	d.	peripheral
a	[29]	14.	The interprets a	nd execut	es programs.
			a. CPU	c.	primary storage
			b. console	d.	disk pack
c	[29]	15.	is the raw mate	rial to be	processed by a computer.
			a. Information	c.	Data
			b. Instructions		Programs
С	[29]	16.	The computer's memory is	also know	yn as:
			a. information	c.	primary storage
			b. CPU	d.	secondary storage
b	[29]	17.	The houses the	CPU and	memory.
			a. storage unit	c.	computer unit
			b. console	d.	disk pack

b	[30]	18.	Machines that produce images on		
			a. scanners	C.	
			b. printers	d.	drives
b	[30]	19.	A flat, oxide-coated disk on which spots is called a disk.	n da	ta is recorded as magnetic
			a. magnetized	c.	carbonized
			b. magnetic	d.	oxidized
с	[30]	20.	Both 5¼- and 3½-inch diskettes ar	e ca	ılled disks.
			a. rigid	c.	floppy
			b. fixed	d.	
b	[31]	21.	Large computer systems often have	ve h	ard disks contained in disk:
			a. drives	c.	systems
			b. packs	d.	packages
b	[35]	22.	The mightiest and most expensive	e co	mputers are known as:
			a. mainframes	c.	maxicomputers
			b. supercomputers	d.	superminicomputers
a	[35]	23.	Minicomputers at the top of the s	ize-	price scale are called:
			a. superminis	c.	workstations
			b. maximinis	d.	mainframes
d	[37]	24.	In a decentralized computer syste to the computer by:	m, e	devices are usually connected
			a. satellite	c.	controllers
			b. programmers	d.	telephone lines
c	[41]	25.	Which of the following is NOT or applications software?	ne o	of the Big Five categories of
			a. database management	c.	expert systems
			b. graphics	d.	- <u>-</u>
a	[42]	26.	The two key elements of desktop software and high-quality:	pul	olishing are the special
			a. printers	c.	scanners
			b. screens	d.	storage

F

[28]

9.

The management of a collection of interrelated files is called [42] 27. a _ management: c. software database b. file d. information [43] technology creates and manipulates sophisticated C 28. graphics representing complex numerical data. c. visualization a. desktop publishing d. imagining b. spreadsheet [46] 29. The computer people who monitor the console, review procedures, a and keep the equipment running are called: a. computer operators c. data entry operators b. computer programmers d. systems analysts The computer people who plan and design entire computer d [46] systems are called: a. librarians c. computer programmers b. computer operators d. systems analysts Answers TRUE/FALSE [24] 1. Software is the most important component of a computer system. F T [24] 2. Most packaged software is applications software. F [24] 3. A person who writes programs is called a computer operator. F [24] 4. People who purchase and use computer software are called librarians. \mathbf{T} [25] 5. The processor is also known as the central processing unit. T [25] 6. Output devices show you the processed data. F [27] 7. Memory is often referred to as principal storage. [27] 8. T Input is the data that you put into the computer system for processing.

Pressing keys on a mouse lets you invoke commands.

- T [28] 10. A voice input system uses a microphone.
- T [28] 11. A bar code reader uses a laser beam.
- F [29] 12. A console includes an input device, an output device, and a connection to the main computer.
- F [29] 13. Primary storage is the computer's center of activity.
- T [29] 14. Raw material to be processed is called data.
- F [29] 15. Secondary storage holds data after it is input to the system and before it is processed.
- T [30] 16. Screens can vary in their forms of display.
- T [30] 17. Laser printers do not make physical contact with the paper.
- F [30] 18. Both 5¼- and 3½-inch diskettes are called fixed disks.
- T [30] 19. Hard disks usually offer more storage capacity than diskettes.
- T [31] 20. Disk data is read by disk drives.
- T [34] 21. In general the four elements of a computer system are input, processing, output, and storage.
- F [35] 22. MIPS stands for millions of inputs per second.
- T [35] 23. The next step down from mainframe computers are minicomputers.
- F [35] 24. Personal computers are also known as microminis.
- T [36] 25. Workstations are used by engineers, scientists, financial traders, and graphic designers.
- F [36] 26. Over the years the definitions of mainframe, minicomputer, and personal computer have become fixed.
- F [37] 27. More and more large computer systems are becoming centralized.

- F [37] 28. The process of exchanging data over communication facilities is known as processing.
- F [42] 29. The most widely used personal computer software is spreadsheet software.
- T [42] 30. The differences between word processing and desktop publishing have recently blurred.
- T [42] 31. Spreadsheet software automatically recalculates results when a number is changed.
- T [44] 32. Graphics software helps people compare data and spot trends more easily.
- F [44] 33. Visual technology creates and manipulates sophisticated graphics representing complex numerical data.
- F [46] 34. Computer programmers plan and design entire computer systems.
- T [46] 35. As a result of the end-user revolution, users have become less reliant on computer professionals.

Answers MATCHING - A

- b [24] 1. hardware
- g [25] 2. computer
- f [27] 3. primary storage
- i [27] 4. mouse
- a [29] 5. console
- d [30] 6. diskette
- j [35] 7. mainframes
- c [35] 8. minicomputers
- e [36] 9. supermicros
- h [44] 10. visualization technology

- a. houses the CPU and memory.
- b. equipment
- c. intended as special purpose computers
- d. 51/4 or 31/2 inches
- e. workstations
- f. memory
- g. accepts, processes, and stores data
- h. create and manipulate sophisticated graphics
- i. pointing device
- j. large computers

Answers		;	MATCHING – B		
b i e c h	[24] [25] [29] [30] [30] [35]	 2. 3. 4. 5. 	computer programmer CPU data output disk packs supercomputers	b. c.	chief information officer writes programs contains hard disks kept in one place results produced by CPU store, update, report, and manipulate data
d f g a	[37] [42] [46] [46]	8. 9.	centralized database management computer operators department manager	g. h. i. j.	monitor console mightiest computers raw material executes instructions

Answers

FILL-IN-THE-BLANK

hardware	[24]	1.	The computer and its associated equipment are known as
applications	[24]	2.	Instructions designed to solve a particular problem are known as packaged or software.
programmer	[24]	3.	A person who writes programs is called a computer
input	[25]	4.	devices accept data in a form that the computer can use.
central processing unit	[25]	5.	The manipulates input data into information.
memory	[27]	6.	is connected with the CPU, and temporarily holds data and instructions.
keyboard	[27]	7.	A(n) "echoes" what you type by displaying it on the screen in front of you.

pen-based	[28]	8.	A(n) system is designed to read your writing.
scanner	[28]	9.	A(n) can be used to capture photos, art, and text for transfer into digital form.
information	[29]	10.	Processed data becomes
screens	[30]	11.	The most common output devices are and printers.
hard disks	[30]	12.	hold more data than diskettes.
supercomputers	[35]	13.	The mightiest and most expensive computers are called
minicomputers	[35]	14.	were originally intended to be small and serve some special purpose.
centralized	[37]	15.	A(n) computer system does all processing in one location.
desktop publishing	[42]	16.	packages are usually better able to meet higher level publishing needs than word processors.
database management	[42]	17.	stores, updates, and manipulates data, and creates reports.
librarians	[46]	18.	catalog the processed disks and tapes, and keep them secure.
information officer	[46]	19.	The department manager is often called the chief

end-user

20. As a result of the _____ revolution, users have become less reliant on computer professionals. [46]

ESSAY 1

Doug Cray is in charge of software purchasing for Software Stock, a chain of computer software stores. List and describe the five major categories of applications software Doug should provide his customers.

ESSAY 2

Michele Beaton is a freshman at a local college. Although Michele is interested in entering the computer field upon graduation, she does not know what type of jobs are available for computer professionals. List the different computer professions discussed in the chapter and describe the job responsibilities of each.

PAGE

SOLUTION TO ESSAY 1

41-44

Word processing/Desktop Publishing: used to create, edit, format, store, and print text and graphics.

Spreadsheets: used to organize business data.

Database management software: used to store, update, and manipulate data, and create reports.

Graphics: used to present information in a visual manner.

Communications: used to exchange data over communication facilities.

All of these software categories are appropriate for Juanita's home business.

PAGE

SOLUTION TO ESSAY 2

46

Data entry operators: prepare data for processing.

Computer operators: monitor the console, review procedures, and keep the equipment running.

Librarians: catalog the processed disks and tapes, and keep them secure.

Computer programmers: design, write, test, and implement programs.

Systems analysts: plan and design entire computer systems.

Chief information officer: understands the goals and operations of the entire organization.

CHAPTER 2

The Central Processing Unit: The Brain of the Machine

Ans	wers	<u>MU</u>	LTIPLE CHOICE				
a	[52]	1.	The controlling center of the				
			a. CPU b. ALU	c. d.	primary memory ROM		
d	[52]	2.	holds data that is permanent or semi-permanent.				
			a. Control unit				
			b. RAM	d.	Secondary storage		
c	[53]	3.	3. The executes all arithmetic and logical operat				
			a. controller unit	c.	ALU		
			b. RAM	d.	control unit		
С	[54]	4.	operations comp	oare n	umbers, letters, or special		
			a. Arithmetic	c.	Logical		
			b. Rational		Mathematical		
b	[54]	5.	Which of the following is no	ot a re	elational operator?		
			a. <	c.	=		
			b. +	d.	<		
a	[55]	6.					
			a. accumulatorb. address register	c.	storage register		
			b. address register	d.	memory register		
b	[55]	7.	stored in memory.		en instruction or piece of data is		
			a. accumulator	C.	storage register		
			a. accumulatorb. address register	d.	memory register		
С	[55]	8.	A(n) temporarily sent to memory.	y holo	ls data taken from or about to be		
			a. accumulator	c.	storage register		
			b. address register		memory register		
d	[55]	9.	Which of the following is N	IOT aı	nother name for memory?		
			a. primary memory	c.	internal storage		
			b. main storage	d.	principle storage		