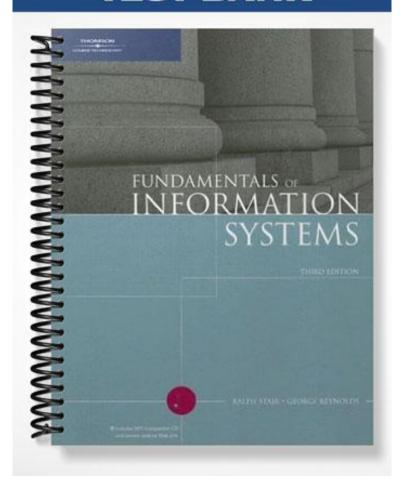
TEST BANK



Chapter 2: Hardware and Software

TRUE/FALSE 1. The ALU and the control unit are the two main elements of the CPU. ANS: T PTS: 1 REF: 49 2. The control unit performs mathematical calculations. ANS: F PTS: 1 REF: 49 3. A printer is an example of hardware. ANS: T PTS: 1 REF: 60 4. Clock speed is measured in MIPs. ANS: F PTS: 1 REF: 50 5. In simple terms, most CPUs are collections of digital circuits imprinted on silicon wafers. ANS: T PTS: 1 REF: 50 6. A byte is composed of seven bits or words. ANS: F PTS: 1 **REF:** 50 7. Coprocessors may be internal or external to the CPU but cannot run at a different clock speed than the CPU. ANS: F PTS: 1 REF: 51 8. A CD-ROM represents bits with tiny magnetized areas. ANS: F PTS: 1 REF: 53 | 55 9. RAM chips lose their contents if the current is turned off or disrupted. ANS: T PTS: 1 REF: 51 10. Compared with memory, secondary storage offers the advantages of nonvolatility, greater capacity, and greater economy. ANS: T PTS: 1 REF: 52 11. Sequential access is usually faster than direct access. ANS: F PTS: 1 REF: 52

12. One common secondary storage medium is magnetic tape.

	ANS: T	PTS:	1	REF:	53
13.	OMR is used in stan	dardized	d tests, includin	ng SAT	and GMAT tests.
	ANS: T	PTS:	1	REF:	57
14.	Primary storage is a	lso calle	d permanent sto	orage.	
	ANS: F	PTS:	1	REF:	52
15.	Expandable storage	devices	can be internal	or exte	rnal.
	ANS: T	PTS:	1	REF:	55
16.	Documentation is a	form of	coding that des	scribes s	sequences of instructions for the computer.
	ANS: F	PTS:	1	REF:	65
17.	Time-sharing allows	s more th	nan one person	to use a	a computer system at the same time.
	ANS: T	PTS:	1	REF:	69
18.	Having an enterprise individual user.	e sphere	of influence m	eans tha	at software is targeted toward the needs of an
	ANS: F	PTS:	1	REF:	66
19.	Multiprocessing inv	olves the	e simultaneous	executi	on of two or more instructions.
	ANS: T	PTS:	1	REF:	51
20.	A command-based uthe computer system		rface uses pictu	ires and	menus displayed on screen to send commands to
	ANS: F	PTS:	1	REF:	67
21.					ing system uses some criteria to decide how long to a turn to use the operating system.
	ANS: T	PTS:	1	REF:	73
22.	The terms multitask	ing and	time-sharing ca	ın be us	ed interchangeably.
	ANS: F	PTS:	1	REF:	68-69
23.	The human resource	departn	nent of a large	firm is a	an example of a formal workgroup.
	ANS: T	PTS:	1	REF:	66
24.	A graphical user into activities.	erface re	equires that text	comma	ands be given to the computer to perform basic
	ANS: F	PTS:	1	REF:	67

25.	Multitasking allows more than one person to use a computer system at the same time.							
	ANS: F	PTS:	1	REF:	68			
26.	An information syst attainment of a com			persona	al sphere of influence supports a workgroup in the			
	ANS: F	PTS:	1	REF:	66			
27.	An operating system	n cannot	control more ti	han one	computer.			
	ANS: F	PTS:	1	REF:	66			
28.	A workgroup is two	or more	people who w	ork tog	ether to achieve a common goal.			
	ANS: T	PTS:	1	REF:	66			
29.	Mac OS X is a netw UNIX platforms.	ork OS	sold by Novell	that car	n support end users on Windows, Macintosh, and			
	ANS: F	PTS:	1	REF:	71			
30.	Parallel processing s	speeds p	rocessing by lin	nking se	everal processors to operate at the same time.			
	ANS: T	PTS:	1	REF:	51			
MUL	TIPLE CHOICE							
1.		entral pro	ocessing unit po	erforms	mathematical calculations and makes logical			
	comparisons? a. Control Unit b. Registers				Cache ALU			
	ANS: D	PTS:	1	REF:	49			
2.	The instruction phas a. CPU instruction b. ALU cycle		er with the exe	c.	phase is called a(n) machine cycle machine instruction			
	ANS: C	PTS:	1	REF:	50			
3.	is the Internet- a. z/OS b. Mac OS X Serve		operating syste	c.	he Hewlett-Packard e3000 family of computers. MPE/iX Red Hat Linux			
	ANS: C	PTS:	1	REF:	73			
4.	How many bits represent a. 2	esent a b	oyte?	C	8			
	b. 4				16			
	ANS: C	PTS:	1	REF:	50			
5.	RAM is							

	a. volatile and temporaryb. nonvolatile and permanent		nonvolatile and temporary volatile and permanent
	ANS: A PTS: 1	REF:	51
6.	is a type of memory that is nonvolatia. Register b. RAM	c.	ROM Cache memory
	ANS: C PTS: 1	REF:	51
7.	A magnetic tape is an example of a(n)a. sequential access storage medium b. optical storage medium	c.	RAID storage area network medium
	ANS: A PTS: 1	REF:	53
8.	RAID is different from other storage device a. is based on optics b. is less expensive	c.	can rebuild lost data minimizes storage requirements
	ANS: C PTS: 1	REF:	54
9.	A is a special-purpose high-speed ne devices and computers.a. local area networkb. wide area network	c.	at provides direct connections between data storage sequential access storage device storage area network
	ANS: D PTS: 1	REF:	54
10.	devices are used in retail operations to a. MICR b. DASD	c.	sales information into the computer system. OCR POS
	ANS: D PTS: 1	REF:	57
11.	Which of the following has the fastest produce. a. Mainframe computers b. Midrange computers ANS: D PTS: 1	c.	Workstations Supercomputers
12.	Programs that help users solve particular c a. systems software b. application software	c.	g problems are called computer hardware documentation
	ANS: B PTS: 1	REF:	65
13.	system.		hardware and the programs of the computer
	a. Microsoft Office Suite softwareb. Application software		General software Systems software
	ANS: D PTS: 1	REF:	65
14.	software enables users to improve the they can do.	eir effect	tiveness, increasing the amount and quality of work

	a. Spreadsb. Databas				Personal productivity Workgroup
	ANS: C	PTS:	1 RE	EF:	65-66
15.	a. user into		s to make use of the	c.	erating system. kernel interface synchronous dynamic RAM
	ANS: B	PTS:	1 RE	EF:	67
16.	A computer a. multithr b. OLE ca	reading	smoothly handle as	c.	creasing number of concurrent users exhibits paging scalability
	ANS: D	PTS:	1 RE	EF:	69
17.	available wl a. virtual i	nen needed.	rms a(n) funct	c.	to ensure that files in secondary storage are file management multitasking
	ANS: C	PTS:	1 RE	EF:	69
18.	Linux is act a. source of b. kernel		of an operating	c.	
	ANS: B	PTS:	1 RE	EF:	70
19.		perating system able to everyone	_	c.	NU General Public License, and its source code is Windows NT Windows 2000
	ANS: A	PTS:	1 RE	EF:	70
20.	Software creation as propriet b. off-the-ANS: A	ary		c.	ormally one-of a kind, is referred to as command-based open-source
21.	is called a(n	_	ider	c.	outsourcer software management firm
22.	is a teclocation to ra. ATM b. RFID		nploys a microchip	c.	an antenna that broadcasts its unique identifier and MICR POS
	ANS: B	PTS:	1 RE	EF:	58

23.	Microsoft Office and a. utility programs b. operating system		WordPerfect	c.	-
	ANS: C	PTS:	1	REF:	81
24.	A(n) may be a a temporary group fo a. sphere of influer b. operating system	ormed to		pecific p	nizational entity such as a section or department, or roject. workgroup personal sphere of influence
	ANS: C	PTS:	1	REF:	66
25.	Which of the follows a. User interface b. Menus	ing allov	ws individuals	c.	ss and command the computer system? Utilities Hardware
	ANS: A	PTS:	1	REF:	67
26.	is a feature of a quantity subject to contain a. Multitasking b. Optimization				at allows the spreadsheet to maximize or minimize a Pipelining Stabilization
	ANS: B	PTS:	1	REF:	79
27.	a. Spreadsheetb. Word processing	5		c. d.	ng, and retrieving data. Online information Database
	ANS: D	PTS:	1	REF:	79
28.	computer devices. a. Mobile	amily o	f Microsoft op	c.	systems included with or embedded into small NetWare
	b. Embedded				Server
	ANS: B	PTS:	1	REF:	74
29.	machine cycle time. a. circuit rate		of electronic p		a predetermined rate, called the, which affects wordlength
	b. transmission spe				clock speed
	ANS: D	PTS:	1	REF:	50
30.	A is a low-cost of a DVD player, into a. thin client b. laptop computer	ernal di		xpansio c.	with essential but limited capabilities that is devoid n slots. workstation server
	ANS: A	PTS:	1	REF:	62
31.	a. Direct b. System	when da	ta must by acco	c.	the order in which it is stored. Sequential Random

	ANS: C	PTS:	1	REF:	52				
32.	are a type of hard-copy output device used for general design work, such as blueprints or schematics.								
	a. Display monitb. Plotters	tors			OLEDs LCDs				
	ANS: B	PTS:	1	REF:	60				
33.	A is a large, connected to the ra. PC	_	_	network.	zens or even hundreds of concurrent users thin client				
	b. workstation				mainframe computer				
	ANS: D	PTS:	1	REF:	63				
34.	Internet application		y ma		rm a specific task, such as running network or				
	a. thin clientb. desktop comp	outer			computer server tablet PC				
	ANS: C	PTS:	1	REF:	63				
35.	Information system with its environmenta. personal b. organizationa	ent.	erate	c.	phere of influence support the firm in its interaction enterprise workgroup				
	ANS: C	PTS:	1	REF:	66				
36.	Information systematics user.	ms that ope	erate	within thes	phere of influence serve the needs of an individual				
	a. personalb. workgroup				employee contact				
	ANS: A	PTS:	1	a. REF:					
37.					brochures, announcements, and full-color				
	a. Graphics			c.	Spreadsheet				
	b. Database			d.	Project management				
	ANS: A	PTS:	1	REF:	80				
38.				corage, and even s	ns, decodes them, and coordinates the flow of data secondary storage and various output devices. control unit coprocessor				
	ANS: C	PTS:	1	REF:	49				
39.	A speeds proprocessing activity		y exe	cuting specific ty	pes of instructions while the CPU works on another				
	a. control unit c. SASD								

d. coprocessor

b. secondary storage device

	ANS:	D	PTS:	1	REF:	51			
40.			ve-inch diamet or several gigat			e with the	ability to store abo	out 135 minutes of	
	a. C			•		CD-RW			
	b. D	VD			d.	memory	card		
	ANS:	В	PTS:	1	REF:	55			
СОМ	PLETI	ON							
1.	In	. 1	.1	,	the combination	n of circuit	t states is fixed, and	d therefore its conte	nts
	are no	t lost if	the power is re	moved	•				
	ANS: ROM								
	Read-	only me	emory						
			only memory) emory (ROM)						
	PTS:	1	REF:	51					
2.	A(n) _				_ provides high	-speed co	nnections between	data storage device	S
	and co	mputer	s.						
	ANS:								
	storag	e area n	etwork						
	SAN								
	_		etwork (SAN)						
	SAN (storage	area network)						
	PTS:	1	REF:	54					
3.	A(n)					minal used	l by most bank cus	tomers to perform	
	withdi	awals a	nd other transa	ctions.					
	ANS:								
	ATM								
	autom	atic tell	er machine						
			tic teller mach						
	autom	atic tell	er machine (A'	ГМ)					
	PTS:	1	REF:	58					
4.			are	the mo	ost powerful co	mputer sys	stems, with the fast	test processing spee	ds.
	ANS:	Supero	computers						
	PTS:	1	REF:	64					
5.							processing capabili	ty of a computer	
	systen	n so that	t it can handle	more tr	ansactions in a	given peri	od.		

	ANS: Scalability
	PTS: 1 REF: 63
6.	A(n) is a more powerful personal computer that is used for technical computing, such as engineering, but still fits on a desktop.
	ANS: workstation
	PTS: 1 REF: 63
7.	memory holds program instructions and data.
	ANS: Primary
	PTS: 1 REF: 49
8.	The number of bits the CPU can process at one time is referred to as the
	ANS: wordlength
	PTS: 1 REF: 50
9.	computing is the use of a collection of computers, often owned by multiple individuals or organizations, to work in a coordinated manner to solve a common problem.
	ANS: Grid
	PTS: 1 REF: 51
10.	One application of is to place a microchip on retail items and install in-store readers that constantly count the inventory on the shelves.
	ANS: RFID radio-frequency identification RFID (radio-frequency identification) radio-frequency identification (RFID)
	PTS: 1 REF: 58
11.	A computer system that enables a sales representative to run an Internet browser and access a database at the same time uses a processing activity called
	ANS: multitasking
	PTS: 1 REF: 68
12.	A specific software program developed for a particular company is calledsoftware.
	ANS: contract
	PTS: 1 REF: 75

13.			sof	ftware is	the set of programs designe	ed to coordinate the ac	tivities and
	function	ons of the hard	ware an	d vario	s programs throughout the c	computer system.	
	ANS:	Systems					
	PTS:	1	REF:	65			
14.			sof	ftware i	an existing software progra	m that is purchased.	
	ANS: Off-the						
	PTS:	1	REF:	75			
15.	Each p		anguage	e has its	own set of rules, called the _		of the
	ANS:	syntax					
	PTS:	1	REF:	84			
16.	A softvin the i	ware manner intende	ed.		is a defect in a computer pr	ogram that keeps it fr	om performing
	ANS:	bug					
	PTS:	1	REF:	85			
17.		mbination of a	_		ware configuration and syst	ems software package	e is known as
	ANS:	computer syst	em plat	form			
	PTS:	1	REF:	65			
18.	A(n) _ hardwa	are and acts as	an inte	rface wi	is a set of computer program happlication programs.	ms that controls the co	omputer
	OS operati	ng system ng system (OS perating system					
	PTS:	1	REF:	66			
19.	The fir based.	est user interfac	ces for 1	mainfra	ne and personal computer sy	vstems were	
	ANS:	command					
	PTS:	1	REF:	67			

20.	Programmers can us	e	to create application software	are						
	without having to ur	nderstand	he inner workings of the operating system.							
	ANS:									
	APIs	intonfooo								
	application program APIs (application pr									
	application program									
	PTS: 1	REF:	7							
21.			capabilities allows a user to run more than one							
	application at the sa	me time.								
	ANS: multitasking									
	PTS: 1	REF:	8							
22.	The ability of the co	mputer to	handle an increasing number of concurrent users smoothly is called							
		·								
	ANS: scalability									
	PTS: 1	REF:	59							
23.			is a collection of single application programs packaged in a							
	bundle.									
	ANS: suite									
	PTS: 1	REF:	1							
24.	There are two basic	types of s	oftware: systems software and software.							
	ANS: application									
	PTS: 1	REF:	55							
25.	The		Server is the first modern server OS from Apple Computer.							
	ANS: Mac OS X									
	PTS: 1	REF:	3							
ESSA	V									
1.	Contrast the various	types of	CD technology.							
	ANS:									

A common form of optical disc is called compact disc read-only memory (CD-ROM). After data has been recorded on a CD-ROM, it cannot be modified—the disc is "read only." CD-recordable (CD-R) discs allow data to be written once to a CD disc. CD-rewritable (CD-RW) technology allows personal computer users to replace their 3.5-inch disks with high-capacity CDs that can be written on and edited. The CD-RW disc can hold roughly 500 times the capacity of a 1.4-MB 3.5-inch disk.

PTS: 1 REF: 55

2. Explain the difference between systems software and application software.

ANS:

Systems software is the set of programs designed to coordinate the activities and functions of the hardware and various programs throughout the computer system. Application software consists of programs that help users solve particular computing problems.

PTS: 1 REF: 65

3. List five examples of tasks performed by the operating system.

ANS:

- Performing common computer hardware functions
- Providing a user interface
- Providing a degree of hardware independence
- Managing system memory
- Managing processing tasks
- Providing networking capability
- Controlling access to system resources
- Managing files

PTS: 1 REF: 67

4. Discuss the advantages and disadvantages of using off-the-shelf software.

ANS:

The advantages of using off-the-shelf software are:

- The initial cost is lower since the software firm is able to spread the development costs over a large number of customers.
- There is a lower risk that the software will fail to meet the basic business needs—you can analyze existing features and the performance of the package.
- Package is likely to be of high quality since many customer firms have tested the software and helped identify many of its bugs.

The disadvantages of using off-the-shelf software are:

- An organization might have to pay for features that are not required and never used.
- The software may lack important features, thus requiring future modification or customization. This can be very expensive because users must adopt future releases of the software as well.
- Software may not match current work processes and data standards.

PTS: 1 REF: 76

5. Explain what is meant by parallel processing and grid computing.

ANS:

Parallel processing is a form of multiprocessing that speeds processing by linking several processors to operate at the same time, or in parallel. Grid computing is the use of a collection of computers, often owned by multiple individuals or organizations, to work in a coordinated manner to solve a common problem. Grid computing is one low-cost approach to parallel processing.

PTS: 1 REF: 51