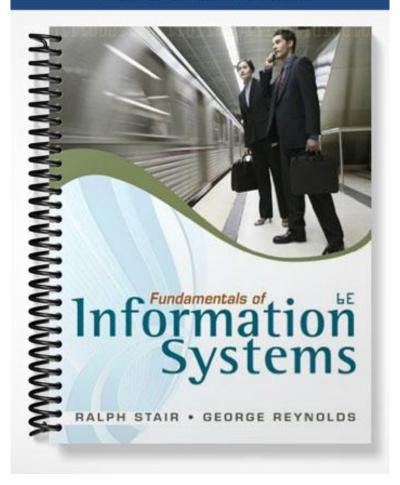
# **TEST BANK**



## Chapter 02: Hardware and Software

## TRUE/FALSE

1.	When making hardw cost and currency.	are deci	sions, the over	riding o	considerations of a business should be technology
	ANS: F	PTS:	1	REF:	62
2.	Business needs and the choose are quite similar	_	oortance are rou	ıghly tl	ne same for all companies so the IS solutions they
	ANS: F	PTS:	1	REF:	63
3.					omputer hardware need to clearly understand current informed acquisition decisions.
	ANS: T	PTS:	1	REF:	63
4.	The components resp box or cabinet, called			- the C	CPU and memory - are housed together in the same
	ANS: F	PTS:	1	REF:	65
5.	The clock speed affect	cts mac	hine cycle time	and th	e rate at which the computer executes instructions.
	ANS: T	PTS:	1	REF:	65
6.	RAM stands for rand	lom acc	ess memory an	d loses	its contents if the current is turned off or disrupted.
	ANS: T	PTS:	1	REF:	65
7.	Parallel processing is operate at the same ti		of multiproces	sing an	d speeds processing by linking several processors to
	ANS: T	PTS:	1	REF:	66
8.	Compared to main m and lower costs.	emory,	secondary stor	age off	ers the advantages of volatility, increased capacity,
	ANS: F	PTS:	1	REF:	67
9.	RAID is a method of	storing	data so that it	can be	accessed more quickly.
	ANS: F	PTS:	1	REF:	69
10.					nips rather than magnetic or optical media and ver data access than magnetic data storage devices.
	ANS: F	PTS:	1	REF:	70

11.	The overall trend in secondary storage devices is toward use of direct access methods, higher capacity, and increased volatility.					
	ANS: F	PTS:	1	REF:	71	
12.	MICR is a technolog	y from	the 1950s still	used to	speed the processing of checks.	
	ANS: T	PTS:	1	REF:	73	
13.	Netbook computers a applications open at				o run demanding applications, have many age capacity.	
	ANS: F	PTS:	1	REF:	78	
14.		storage,			ds that include one or more processors, computer and a common power supply and air-cooling source	
	ANS: T	PTS:	1	REF:	80	
15.	Support for green co distinguish themselve				business strategy for computer manufacturers to	
	ANS: T	PTS:	1	REF:	81	
16.	Systems software co	nsists of	f programs that	help us	sers solve particular computing problems.	
	ANS: F	PTS:	1	REF:	83	
17.		omers, s	suppliers, share		rise sphere of influence support the firm in its , competitors, special-interest groups, the financial	
	ANS: T	PTS:	1	REF:	84	
18.	To run, applications interface.	request	services from t	he oper	rating system through a defined application program	
	ANS: T	PTS:	1	REF:	86	
19.	Most operating syste the immediate, funct				which allocates space on the hard disk to supplement M.	
	ANS: F	PTS:	1	REF:	86	
20.	The ability of a computitiasking.	outer to	handle an incre	easing r	number of concurrent users smoothly is called	
	ANS: F	PTS:	1	REF:	87	
21.	The Snow Leopard or resurrect deleted file		g system allow	s users	to view their system as it looked in the past and	
	ANS: T	PTS:	1	REF:	88	

22.	2. Linux is not a full operating system and many distibutions of Linux are available with various sets of capabilities and applications to form a full operating system.					
	ANS: T	PTS:	1	REF:	89	
23.	Utility programs hel track of computer jo				rect problems, merge and sort sets of data, keep	
	ANS: T	PTS:	1	REF:	93	
24.	Application program hardware to perform		•	softwa	are, and the systems software directs computer	
	ANS: T	PTS:	1	REF:	94	
25.					ean provide the software, support, and computer ser's facilities over a network.	
	ANS: T	PTS:	1	REF:	95	
26.	Software as a service by paying a monthly				be to Web-delivered business application software e.	
	ANS: T	PTS:	1	REF:	95	
27.	A software suite is a word processing, spi			-	packaged together as a bundle and typically include	
	ANS: T	PTS:	1	REF:	98	
28.	There are free Web-	based pr	oductivity soft	ware su	nites that require no installation on the computer.	
	ANS: T	PTS:	1	REF:	99	
29.	Programming language people can use to co				abols, and rules for constructing statements that omputer.	
	ANS: T	PTS:	1	REF:	103	
30.	Outsourcing global s North America.	software	support to one	or moi	re third-party distributors is gaining acceptance in	
	ANS: T	PTS:	1	REF:	104	
MUL	TIPLE CHOICE					
1.	system and of				derstanding its relationship to the information	
	<ul><li>a. growth</li><li>b. business plan</li></ul>				structure needs	
	ANS: D	PTS:	1	REF:	64	

2.	Each central processiunit.	ing unit	consists of two	o primai	ry elements: the arithmetic/logic unit and the
	a. memory b. input/output				control ALU
	ANS: C	PTS:	1	REF:	64
3.	A type of memory w a. multicore b. nonvolatile	hose co	ntents are not l	c.	e power is turned off is said to be  RAM none of the above
	ANS: B	PTS:	1	REF:	66
4.	is the use of a cowork in a coordinate a. cloud computing b. grid computing	d manne		ommon p c.	owned by many people or different organizations, to problem.  parallel computing none of the above
	ANS: B	PTS:	1	REF:	67
5.	RAID storage device a. fault tolerant b. exceedingly fast	es provid	le organization	c.	lata storage that is extremely low cost unlimited in storage capacity
	ANS: A	PTS:	1	REF:	69
6.	A(n) uses compa. digital video dishb. virtual tape		vers, distribut	c.	ge devices, and networks to tie everything together. storage area network RAID storage device
	ANS: C	PTS:	1	REF:	69
7.	The is an advareven the Blu-ray optional holographic versely. virtual tape	ical disk	system.	c.	RAID storage device CD-ROM R/W
	ANS: A	PTS:	1	REF:	70
8.	a. MICR readers b. OMR readers	ised to o	capture input in	c.	rdized tests such as the SAT and GMAT.  Speech recognition devices  OCR readers
	ANS: B	PTS:	1	REF:	72
9.	An RFID tag on an in a. product informat b. location data		y item might c	c.	nformation  details about the item tagged all of the above
	ANS: D	PTS:	1	REF:	73
10.	displays are fla backlit screen.	t display	ys that use liqu	id crysta	als to form characters and graphic images on a
	<ul><li>a. CRT</li><li>b. Plasma</li></ul>				OLED LCD

	ANS: D	PTS:	1	REF:	74
11.	The display mo	onitor us	ses the least am	nount of	power.
	a. OLED			c.	Plasma
	b. LCD			d.	CRT
	ANS: A	PTS:	1	REF:	74
12.	The is a single development work.	user, no	onportable com	iputer de	esigned to perform engineering, CAD, and software
	a. desktop			c.	workstation
	b. netbook			d.	notebook
	ANS: C	PTS:	1	REF:	79-80
13.	are the most po	owerful	computers witl	h the fas	stest processing speed and highest performance.
	a. Blade servers		•		Mainframe computers
	b. Workstations				Supercomputers
	ANS: D	PTS:	1	REF:	80
	THIS. D	110.	1	TCLI.	
14.	Green computing is products.	focused	at the efficient	t and en	vironmentally responsible of IS related
	a. design and manu	ufacture		c.	disposal
	b. operation			d.	•
	ANS: D	PTS:	1	REF:	81
1.5	D 1 '	. 11	11.11 6		11 1 1 1 1 ( )
15.			avanabie sonw		usually asked to read and agree to a(n)
	a. copyright agreer				end-user license agreement
	b. privacy statemen	nt		a.	purchase order
	ANS: C	PTS:	1	REF:	83
16.	An information systework together to ach			s <sub>l</sub>	phere of influence supports two or more people who
	a. personal	neve a c	ommon goar.	C	enterprise
	b. workgroup				none of the above
	ANS: B	PTS:	1	REF:	84
17.	The features of system's assets.	f the ope	erating system	allocate	computer resources to make the best use of each
	a. file management	t		c.	user interface
	b. task managemer				multitasking
	ANS: B	PTS:	1	REF:	86
18.	An operating system time.	n with _	capabilities	s allows	a user to run more than one application at the same
	a. networking capa	hility		C	memory management
	b. hardware indepe				multitasking
	_		1		-
	ANS: D	PTS:	1	REF:	86
19.	is an open sour	rce opera	ating system w	hose so	urce code is freely available to everyone.

	<ul><li>a. Unix</li><li>b. Snow Leopa</li></ul>	ard			Linux Red Hat
	ANS: C	PTS:	1	REF:	89
20.	is a power runs on workstar a. z/OS b. AIX			ne com	veloped by AT&T for use on minicomputers but now puters.  Unix Linux
	ANS: C	PTS:	1	REF:	91
21.	Embedded opera a. represent a s b. are changing c. are used in a d. all of the abo	small, niche n g the way we n narrow rang	market interact with i		ousehold devices
	ANS: B	PTS:	1	REF:	92
22.	<ul><li>a. being involve</li><li>b. the initial control</li><li>c. the software organization</li><li>d. the software</li></ul>	yed in the devost is lower is likely to note	velopment offer meet the basic oe of high qual	ers controllers	che-shelf software is that rol over the results as needs that are common across ause many customer firms have tested the
	ANS: A	PTS:	1	REF:	94
23.	a. sensitive inf	formation cou ald be incapa ould disable t	ald be comproa ble of keeping	mised its serv	orovider is that  vers and network up and running consistently
	ANS: D	PTS:	1	REF:	95
24.	<ul><li>business operation</li><li>a. software suit</li><li>b. ERP</li></ul>	ons for an ente	tire multisite,	global ( c. d.	workgroup application software productivity software
	ANS: B	PTS:	1	REF:	102
25.	used today. a. a couple	nds of progra	mming langua	c.	a few dozen a hundred or so
	b. one dozen				
	b. one dozen				
OMI	ANS: C  PLETION	PTS:	1	REF:	103

	ANS:	arithmetic/log	gic	
	PTS:	1	REF:	64
2.			is 1	the component of the computer that rapidly provides data and instructions
	to the	CPU.		
	ANS:	main memory	,	
	PTS:	1	REF:	65
3.			are	e two rival manufacturers of computer processing chips.
	ANS:	Intel and AM	D	
	PTS:	1	REF:	66
4.		the success of monitor.	f grid co	omputing is a(n) that acts as a grid leader and
	ANS:	central server		
	PTS:	1	REF:	67
5.	With _			access, it is possible to go directly to and access the needed data.
	ANS:	direct		
	PTS:	1	REF:	68
6.	Theconnec	ctivity among o	data sto	_ is a special-purpose, high-speed network that provides high-speed rage devices and computers over a network.
	ANS:	storage area n	etwork	(SAN)
	PTS:	1	REF:	69
7.		versal Serial B lary storage de		drive is one example of a commonly used solid state
	ANS:	flash		
	PTS:	1	REF:	70
8.	A(n) _	is a dot of	of color	on a photo image or a point of light on a display screen.
	ANS:	pixel		
	PTS:	1	REF:	74
9.				or compressing a sound sequence into a very small file while preserving the ty when it is played.

	PTS:	1	REF:	75				
10.	The di	gital media eq	uivalent	t of a conventional printed book is called a(n)				
	ANS:	e-book						
	PTS:	1	REF:	76				
11.			COI	mputers are the smallest and least expensive members of the laptop				
11.		iter family.		imputers are the sinanest and least expensive members of the haptop				
	ANS:	Netbook						
	PTS:	1	REF:	78				
12.			CO1	mputers are portable, lightweight computers with no keyboard that allow				
		carry them lik						
	ANS:	Tablet						
	PTS:	1	REF:	78				
13.			COI	mputing is emerging as a new business strategy for computer				
	manufacturers to distinguish themselves from the competition.							
	ANS:	Green						
	PTS:	1	REF:	81				
14.			des	scribes the program functions to help the user operate the computer				
	systen							
	ANS:	Documentation	n					
	PTS:	1	REF:	83				
15.	A(n) _			allows applications to make use of the operating system.				
	ANS:	ANS: application program interface						
	PTS:	1	REF:	86				
16.			wo	orks by swapping programs or parts of programs between memory and one				
10.		re disk drives.	,,, c	one of an appring programs or programs connects memory and one				
	ANS:	Virtual memo	ory					
	PTS:	1	REF:	86				
17.			all	ows more than one person to use a computer system at the same time.				
	ANS:	Time sharing						

ANS: MP3

	PTS:	1	REF:	87			
18.	combi	ned with an Int	is a	a system platform that uses one of the Windows operating systems essor.			
		Wintel	•				
	PTS:	1	REF:	88			
19.	Googl	e has develope	d its ow	n Linux-based operating system called			
	ANS:	Chrome					
	PTS:	1	REF:	89			
20.	RIM i	ntroduced the _		smartphone in 2002.			
	ANS:	BlackBerry					
	PTS:	1	REF:	92			
21.	The publishing and motion picture industries use management technologies to prevent copy protected books and movies from being unlawfully copied.						
	ANS:	digital rights					
	PTS:	1	REF:	93			
22.	is software that is mass produced by software vendors to address needs that are common across business, organizations, or individuals.						
	ANS:	Off-the-shelf					
	PTS:	1	REF:	94			
23.	SaaS p	oroviders maint	ain soft 	tware on their own servers and provide access to it over the			
	ANS:	Internet					
	PTS:	1	REF:	95			
24.	refers to the use of computing resources, including software and data storage, on the Internet rather than on local computers.						
	ANS:	Cloud comput	ing				
	PTS:	1	REF:	95			
25.	people	e can use to cor	are	e sets of keywords, symbols, and rules for constructing statements that ate instructions to a computer.			
	ANS:	Programming	langua	ges			

PTS: 1 REF: 103

#### **ESSAY**

1. Briefly discuss how the processing of data in a computer involves the interplay between its various hardware components.

ANS:

Each central processing unit consists of two primary elements: the arithmetic/logic unit and the control unit. The ALU performs mathematical calculations and makes logical comparisons. The control unit sequentially accesses program instructions, decodes them, and coordinates the flow of data in and out of the ALU, primary storage, and even secondary storage and various output devices.

PTS: 1 REF: 64

2. What is grid computing and how does it work?

#### ANS:

Grid computing is the use of a collection of computers, often owned by many people or organizations, to work in a coordinated manner to solve a common problem. Key to the success of grid computing is a central server that acts as a grid leader and traffic monitor. This controlling computer divides the computing task into subtasks and assigns the work to computers on the grid that have (at least temporarily) surplus processing power. The central server also monitors the processing, and if a member of the grid fails to complete a subtask, it will restart or reassign the task. When all the tasks are completed, the controlling server combines the results and advances to the next task until the whole job is completed.

PTS: 1 REF: 67

3. Identify three advantages of the use of solid state secondary storage devices over magnetic or optical media.

#### ANS:

Solid state storage devices store data in memory chips rather than magnetic or optical media. The memory chips require less power and provide faster data access. In addition, because SSDs have fewer moving parts, they are less fragile than hard disk drives and less likely to fail.

PTS: 1 REF: 70

4. List the activities performed by the operating system.

#### ANS:

Perform common computer hardware functions
Provide a user interface and input/output management
Provide a degree of hardware independence
Manage system memory
Manage processing tasks
Provide networking capability
Control access to system resources
Manage files

PTS: 1 REF: 85

5. What are some of the disadvantages of using proprietary software?

### ANS:

It can take a long time and significant resources to develop the required features. In house system developers may become hard pressed to provide the required level of ongoing support and maintenance because of pressure to move on to other projects. The features and performance of software that has yet to be developed presents potential risk.

PTS: 1 REF: 94