Chapter 02: The System Unit: Processing and Memory

1. The process of representing data in digital form so it can be used by a digital computer is called decimal byte representation.

a. Trueb. False

ANSWER: False
POINTS: 1
REFERENCES: 52

QUESTION TYPE: True / False

HAS VARIABLES: False

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2. The binary numbering system uses only two symbols—the digits 0 and 1—to represent all possible numbers.

a. Trueb. False

ANSWER:TruePOINTS:1REFERENCES:52-53QUESTION TYPE:True / False

HAS VARIABLES: False

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3. Unlike ASCII, Unicode is a universal coding standard designed to represent text-based data written in any language, including those with different alphabets.

a. Trueb. False

ANSWER: True POINTS: 1
REFERENCES: 54

QUESTION TYPE: True / False

HAS VARIABLES: False

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4. Each pixel in a monochrome graphic can be only one of two possible colors (such as black or white).

a. Trueb. False

True

REFERENCES: 55

QUESTION TYPE: True / False

ANSWER:

POINTS:

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HAS VARIABLES:			False	
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5. To convert analog soun moment—are taken every	-	d, several thousar	nd samples—digital representat	ions of the sound at a particular
	a.	True		
	b.	False		
ANSWER:			True	
POINTS:			1	
REFERENCES:			55	
QUESTION TYPE:			True / False	
HAS VARIABLES:			False	
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6. Early computers require	ed programs to be	e written in mach	ine language.	
	a.	True		
	b.	False		
ANSWER:			True	
POINTS:			1	
REFERENCES:			56	
QUESTION TYPE:			True / False	
HAS VARIABLES:			False	
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7. The main circuit board	inside the system	unit is called the	e megaboard.	
	a.	True		
	b.	False		
ANSWER:			False	
POINTS:			1	
REFERENCES:			57	
QUESTION TYPE:			True / False	
HAS VARIABLES:			False	
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8. The number of bits being	ng transmitted at	one time is deper	ndent on the bus width.	
	a.	True		
	b.	False		
ANSWER:			True	

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POINTS:			1	
REFERENCES:			62	
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9. ROM (read-only memorathe computer is running.	ory), also called n	nain memory, is u	sed to store the essential parts	s of the operating system while
	a.	True		
	b.	False		
ANSWER:			False	
POINTS:			1	
REFERENCES:			62	
QUESTION TYPE:			True / False	
HAS VARIABLES:			False	
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10. Each location in mem	ory has an addres	SS.		
	a.	True		
	b.	False		
ANSWER:			True	
POINTS:			1	
REFERENCES:			64	
QUESTION TYPE:			True / False	
HAS VARIABLES:			False	
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11. Traditionally, PC Card	ds were used for 1	_	on.	
	a.	True		
	b.	False		
ANSWER:			True	
POINTS:			1	
REFERENCES:			67	
QUESTION TYPE:			True / False	
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12. The backside bus (BSB) has been one of the most common types of expansion buses in past years.

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	a.	True		
	b.	False		
ANSWER:			False	
POINTS:			1	
REFERENCES:			69	
QUESTION TYPE:			True / False	
HAS VARIABLES:			False	
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13. Several of the original printers—are now consider			rs—such as the parallel ports t	raditionally used to connect
	a.	True		
	b.	False		
ANSWER:			False	
POINTS:			1	
REFERENCES:			70	
QUESTION TYPE:			True / False	
HAS VARIABLES:			False	
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14. USB ports are used to	connect a compu	uter to a phone ou	tlet via telephone connectors.	
	a.	True		
	b.	False		
ANSWER:			False	
POINTS:			1	
REFERENCES:			71	
QUESTION TYPE:			True / False	
HAS VARIABLES:			False	
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15. MIDI ports are used to	o receive wireless		om devices.	
	a.	True		
	b.	False		
ANSWER:			False	
POINTS:			1	
REFERENCES:			71	
QUESTION TYPE:			True / False	
HAS VARIABLES:			False	

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16. The decode unit coord	linates and contro	ls the operations	and activities taking place w	ithin the CPU.
	a.	True		
	b.	False		
ANSWER:			False	
POINTS:			1	
REFERENCES:			74	
QUESTION TYPE:			True / False	
HAS VARIABLES:			False	
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17. The control unit takes understood by the control			fetch unit and translates then	n into a form that can be
	a.	True		
	b.	False		
ANSWER:			False	
POINTS:			1	
REFERENCES:			75	
QUESTION TYPE:			True / False	
HAS VARIABLES:			False	
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18. As a hard drive begins	s to get full, it take	es less time to loc	cate and manipulate the data	stored on the drive.
C	a.	True	•	
	b.	False		
ANSWER:			False	
POINTS:			1	
REFERENCES:			77	
QUESTION TYPE:			True / False	
HAS VARIABLES:			False	
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19. Pipelining increases th	ne number of mac	-	oleted per second.	
	a.	True		
	b.	False		
ANSWER:			True	
POINTS:			1	

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REFERENCES:

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QUESTION TYPE:			True / False	
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20. Typically, 3D chips an	re created by laye	ring individual sil	icon wafers on top of one ano	ther.
	a.	True		
	b.	False		
ANSWER:			True	
POINTS:			1	
REFERENCES:			85	
QUESTION TYPE:			True / False	
HAS VARIABLES:			False	
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21. Most recent software use ASCII.	programs, includ	ing the latest versi	ons of Microsoft Windows, M	Mac OS, and Microsoft Office,
ANSWER:		·]	False - Unicode	
POINTS:			1	
REFERENCES:		:	54	
QUESTION TYPE:]	Modified True / False	
HAS VARIABLES:]	False	
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22. ASCII is the coding sy	ystem traditionall	y used with person	nal computers.	
ANSWER:			True	
POINTS:			1	
REFERENCES:		;	54	
QUESTION TYPE:]	Modified True / False	
HAS VARIABLES:]	False	
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23. Because of its large si time.		ata is transmitted	over the Internet it is often end	crypted to shorten the download
ANSWER:]	False - compressed	
POINTS:			1	
REFERENCES:		:	55	
QUESTION TYPE:]	Modified True / False	
HAS VARIABLES:			False	
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24. The system unit is the main c	•	
ANSWER:	True	
POINTS:	1	
REFERENCES:	56	
QUESTION TYPE:	Modified True / False	
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25. The <u>central processing unit (Connected directly to the mother)</u>	<u>CPU</u>) consists of a variety of circuitry and components coard.	that are packaged together and
ANSWER:	True	
POINTS:	1	
REFERENCES:	58	
QUESTION TYPE:	Modified True / False	
HAS VARIABLES:	False	
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26. The CPU—also called the mi	croprocessor or just the board—does the vast majority	of the processing for a computer.
ANSWER:	False - processor, microprocessor	
POINTS:	1	
REFERENCES:	58	
QUESTION TYPE:	Modified True / False	
HAS VARIABLES:	False	
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one component (such as the CPU performance of the component be		
ANSWER:	True	
POINTS:	1	
REFERENCES:	60-61	
QUESTION TYPE:	Modified True / False	
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28. Cache memory today is usual	ly external cache.	

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ANSWER:	False - internal	
POINTS:	1	
REFERENCES:	61	
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29. Memory refers to the amount of lo		
ANSWER:	False - Storage	
POINTS:	1	
REFERENCES:	62	
QUESTION TYPE:	Modified True / False	
HAS VARIABLES:	False	
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Killethin Meropi		
30. The accompanying figure shows a	DIMM RAM microprocessor.	
ANSWER:	False - memory module	
POINTS:	1	
REFERENCES:	63	
QUESTION TYPE:	Modified True / False	
HAS VARIABLES:	False	
PREFACE NAME:	Figure 2-11	
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31. The buses used to connect peripher expansion buses.	ral (typically input and output) devices to the mother	poard are usually referred to as
ANSWER:	True	
POINTS:	1	
REFERENCES:	68	

Modified True / False

QUESTION TYPE:

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HAS VARIABLES:	False	
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32. Keyboards and mice are typically cor	nnected to a computers using parallel ports.	
ANSWER:	False - USB	
POINTS:	1	
REFERENCES:	69	
QUESTION TYPE:	Modified True / False	
HAS VARIABLES:	False	
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33. Today's CPUs contain hundreds of more phenomenon known as Moliere's Law.	nillions of transistors, and the number double	s approximately every 18 months, a
ANSWER:	False - Moore's Law	
POINTS:	1	
REFERENCES:	73	
QUESTION TYPE:	Modified True / False	
HAS VARIABLES:	False	
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34. Each machine language instruction in instructions called supercode.	a CPU's instruction set is broken down into	several smaller, machine-level
ANSWER:	False - microcode	
POINTS:	1	
REFERENCES:	75	
QUESTION TYPE:	Modified True / False	
HAS VARIABLES:	False	
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35. With pipelining, a new instruction be	gins executing as soon as the previous one re	eaches the next stage of the pipeline.
ANSWER:	True	
POINTS:	1	
REFERENCES:	80	
QUESTION TYPE:	Modified True / False	
HAS VARIABLES:	False	
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36. Eight bits groupe	ed together ar	e collectively referred to	as a .			
a.	kilobit			b.	byte	
c.	pixel			d.	binary	
ANSWER:			b			
POINTS:			1			
REFERENCES:			52			
QUESTION TYPE:			Mult	iple Ch	oice	
HAS VARIABLES:			False	:		
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37. The numbering s represent all possible		mmonly use is called the	decimal n	umberin	g system because it	t uses symbols to
	a.	2		b.	5	
	c.	10		d.	16	
ANSWER:			c			
POINTS:			1			
REFERENCES:			52			
QUESTION TYPE:			Mult	iple Ch	oice	
HAS VARIABLES:			False	;		
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38. A is the sm	allest unit of	data that a binary compu	ıter can rec	ognize.		
a.	byte		t).	datum	
c.	pixel		ć	l.	bit	
ANSWER:			d			
POINTS:			1			
REFERENCES:			52			
QUESTION TYPE:			Mult	iple Ch	oice	
HAS VARIABLES:			False	•		
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39. A is equal	to 1,024 byte	S.				
a. kilo	obyte (KB)		b.	mega	byte (MB)	
c. gig	abyte (GB)		d.	terab	yte (TB)	
ANSWER:			a			
POINTS:			1			
REFERENCES:			52			
QUESTION TYPE:			Mult	iple Ch	oice	
HAS VARIABLES:			False)		

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40. Each place value	in a binary r	umber represen	raised to	he appro	priate power.			
•	a.	0		b.	1			
	c.	2		d.	10			
ANSWER:			c					
POINTS:			1					
REFERENCES:			53					
QUESTION TYPE:			Mı	ıltiple Ch	noice			
HAS VARIABLES:			Fai	se				
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41. With bitmapped	_		_ is represented l	-		the better the image quality.		
a.	pixel			b.	vector			
c.	map			d.	byte			
ANSWER:			a					
POINTS:			1					
REFERENCES:				-55				
QUESTION TYPE:				ıltiple Cl	noice			
HAS VARIABLES:			Fai					
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42. In a 16.8-million data for each pixel in	,	l photographic q	uality or) in	nage, thre	ee bytes (24 bits) a	are used to store the color		
a.	mega color			b.	true color			
c.	real color			d.	full color			
ANSWER:			b					
POINTS:			1					
REFERENCES:			55					
QUESTION TYPE:			Mı	ıltiple Ch	noice			
HAS VARIABLES:			Fai	se				
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43. Like graphics dat stored on a storage m				one spea	king—must be in	digital form in order to be		
-	ixel data	-		giga data	ı			
c. at	ıdio data		d.	audio pr	ograms			
ANSWER:			c					
POINTS:			1					

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HAS VARIABLE				False	_			
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44. Video data—	–sucl	n as home movies, fo	eature films, and t	television s	shows	s—is displayed usir	ng a collection of	
	a.	slides			b.	pixels		
	c.	vectors			d.	frames		
ANSWER:				d				
POINTS:				1				
REFERENCES:				56				
QUESTION TYP	PE:			Multi	ple C	hoice		
HAS VARIABLE	ES:			False				
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and storage loca	tions		a meaningless st	ering of 0s	and 1:	s, but it actually rep	presents specific operations	
		mming language			d.	machine languag	e	
ANSWER:	J			d		2 2		
POINTS:				1				
REFERENCES:				56				
QUESTION TYP	PE:			Mult	iple (Choice		
HAS VARIABLE				False	•			
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46 are ver	y sm	all pieces of silicon	or other semicono	ducting ma	terial	onto which integra	ited circuits are embedded.	
a.		Pixels	b.	Penti	ums			
c.		Chips	d.	Moth	erboa	ards		
ANSWER:				c				
POINTS:				1				
REFERENCES:				56				
QUESTION TYP	PE:			Mult	iple (Choice		
HAS VARIABLE	ES:			False	•			
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47. One measure a.		at of the speed of a C	PU is the, v			megahertz (MHz) clock speed	or gigahertz (GHz).	

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c. sy	stem rpm		d. CPU rp	om	
ANSWER:	1		b		
POINTS:			1		
REFERENCES:			60		
QUESTION TYPE:			Multiple Ch	oice	
HAS VARIABLES:			False		
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48. A computer	is the amount of data	(measured in bits	or bytes) that a	a CPU can manipula	ate at one time.
a.	word		b.	character	
c.	statement		d.	unit	
ANSWER:			a		
POINTS:			1		
REFERENCES:			61		
QUESTION TYPE:			Multiple Cl	noice	
HAS VARIABLES:			False		
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49. A is an ele	ectronic path over whic	h data can travel.			
a.	bus	b.	lane		
c.	word	d.	cache memory	7	
ANSWER:			a		
POINTS:			1		
REFERENCES:			62		
QUESTION TYPE:			Multiple Ch	oice	
HAS VARIABLES:			False		
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	and bus speed together ous in a given period of		s or band	width; that is, the an	mount of data that can be
a.	clock speed		b.	throughput	
c.	machine cycle		d.	memory	
ANSWER:			b		
POINTS:			1		
REFERENCES:			62		
QUESTION TYPE:			Multiple Cl	noice	
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51. The term refers to chip-based storage used	by the computer.	
a. storage media	b.	memory
c. hard drive	d.	Zip drive
ANSWER:	b	
POINTS:	1	
REFERENCES:	62	
QUESTION TYPE:	Multiple Choice	
HAS VARIABLES:	False	
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52. One type of nonvolatile RAM, called MRAM, us	ses polarization rather	than an electrical charge to store data.
a. magnetoselective	b. magneto	balanced
c. magnetic	d. magneto	charged
ANSWER:	c	
POINTS:	1	
REFERENCES:	64	
QUESTION TYPE:	Multiple Choice	
HAS VARIABLES:	False	
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53 are small components typically made out o	f aluminum with fins that he	elp to dissipate heat.
a. ACs	b. Fan	S
c. Heat buses	d. Hea	t sinks
ANSWER:	d	
POINTS:	1	
REFERENCES:	65	
QUESTION TYPE:	Multiple Choice	
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54 consists of nonvolatile memory chips that of	• •	e computer or the user.
a. RAM	b. Register	
c. SDRAM	d. Flash memor	y
ANSWER:	d	
POINTS:	1	
REFERENCES:	65	
QUESTION TYPE:	Multiple Choice	
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55 have begun to replace ROM for storing systems.	em inforr	nation, s	uch as a PC's	BIOS.
a. Motherboards	b.	Micro	processors	
c. Adapter cards	d.	Flash	memory chips	
ANSWER:		d		
POINTS:		1		
REFERENCES:		65		
QUESTION TYPE:		Multip	le Choice	
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56. The enables up to 127 devices to be connect unit.	ed to a co	omputer	through a sing	le port on the computer's system
a. HyperTransport bus			b.	USB standard
c. AGP (Accelerated Graphics Port) bus			d.	PCI Express Bus
ANSWER:		b		_
POINTS:		1		
REFERENCES:		69		
QUESTION TYPE:		Multip	le Choice	
HAS VARIABLES:		False		
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57. Most network cards contain a port that accepts a(1				
a. RJ-11 connector			RJ-12 conne	
c. RJ-14 connector		d.	RJ-45 conne	ctor
ANSWER:		d		
POINTS:		1		
REFERENCES:		71		
QUESTION TYPE:		_	le Choice	
HAS VARIABLES:		False		
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58. A USB is a device that plugs into your PC's	-		_	nto several USB ports.
a. hub	b.		dule	
c. bus	d.		nector	
ANSWER:		a		
POINTS:		1		
REFERENCES:		71		

Name :			CI:	ass		Dat e:
Chapter 02	2: The S	System Unit: Processing and Memory				
QUESTIO	N TYPE	Z:		Multiple	Choice	
HAS VARI	ABLES	<u>:</u>		False		
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		ers today support the standard, in ed and the PC is powered up.	which	the compu	ater automatically co	onfigures new devices as soon
J	a.	Plug and Play		b.	Match	
	c.	Serial port		d.	Parallel port	
ANSWER:				a	_	
POINTS:				1		
REFEREN	CES:			71		
QUESTIO	N TYPE	E :		Multiple	Choice	
HAS VARI	ABLES	:		False		
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	-	ent of the microprocessor is the	–a dev	ice made of	f semiconductor ma	terial that acts like a switch
	a.	processor		b.	transistor	
	c.	chipbus		d.	S-card	
ANSWER:		•		b		
POINTS:				1		
REFEREN	CES:			73		
QUESTIO	N TYPE	Σ:		Multiple	Choice	
HAS VARI	ABLES	:		False		
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61. The	take	s instructions from the prefetch unit a	nd tran	slates them	into a form that the	control unit can understand.
	a.	register	b.	decode	unit	
	c.	ALU	d.	internal	cache	
ANSWER:				b		
POINTS:				1		
REFEREN	CES:			73		
QUESTIO	N TYPE	<u> </u>		Multiple	Choice	
HAS VARI	ABLES	:		False		
DATE CRE	EATED	:		12/5/2013	3 4:47 PM	
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62. The	is th	e section of the CPU that performs ari	thmeti	ic involving	g integers and logica	l operations.
	a.	FPU		b.	control unit	
	c.	decode unit		d.	ALU	

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Chapter 02: The System Unit: Processing and M	emory	
ANSWER:	d	
POINTS:	1	
REFERENCES:	74	
QUESTION TYPE:	Multiple Choice	
HAS VARIABLES:	False	
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63. The orders data and instructions from c	ache or RAM based on the task at h	and.
a. ALU	b. prefetch un	nit
c. control unit	d. decode uni	t
ANSWER:	b	
POINTS:	1	
REFERENCES:	75	
QUESTION TYPE:	Multiple Choice	
HAS VARIABLES:	False	
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64. The tries to predict what data and instruavoid delays in processing.	actions will be needed and retrieves	them ahead of time, in order to help
a. control unit	b. floating p	oint unit
c. arithmetic/logic unit	d. prefetch u	
ANSWER:	d	
POINTS:	1	
REFERENCES:	75	
QUESTION TYPE:	Multiple Choice	
HAS VARIABLES:	False	
DATE CREATED:	12/5/2013 4:47 PM	
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65. Instructions and data flow in and out of the C	CPU via the	
a. control unit	b. prefetch unit	
c. decode unit	d. bus interface unit	
ANSWER:	d	
POINTS:	1	
REFERENCES:	75	
QUESTION TYPE:	Multiple Choice	
HAS VARIABLES:	False	
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66. In order to synchronize all of a computer's operation used.	s, a	-a small quartz crystal located on the motherboard—is	
a. cycle chip	b.	fetch unit	
c. system clock	d.	microprocessor	
ANSWER:	c	1	
POINTS:	1		
REFERENCES:	75		
QUESTION TYPE:	Mu	ltiple Choice	
HAS VARIABLES:	Fal		
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67. Some must be added in pairs for optimal perfor	mance.		
a. interfaces	b. me	emory modules	
c. USB ports	d. ha	rd drives	
ANSWER:	b		
POINTS:	1		
REFERENCES:	77		
QUESTION TYPE:	Mu	Iltiple Choice	
HAS VARIABLES:	Fal	se	
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68. Today's CPUs are formed using a process called	_ that imp	rints patterns on semiconductor materials.	
a. vectoring	b.		
c. serigraphy	d.	imprintment	
ANSWER:	b		
POINTS:	1		
REFERENCES:	79		
QUESTION TYPE:		Iltiple Choice	
HAS VARIABLES:	Fal		
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69. One nanometer (nm) is of a meter.			
a. one-billionth		b. one-millionth	
c. one-thousandth		d. one-tenth	
ANSWER:	a		
POINTS:	1		
REFERENCES:	79		
QUESTION TYPE:		ltiple Choice	
HAS VARIABLES:	Fal	se	

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70. Terascale compu	ting is the ability of com	puters to process one floa b. billio	ating-point operations per second (teraflops).	
c.	trillion	d. quad	rillion	
ANSWER:		c		
POINTS:		1		
REFERENCES:		85		
QUESTION TYPE:		Multiple Ch	oice	
HAS VARIABLES:		False		
DATE CREATED:		12/5/2013 4	:47 PM	
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Case-Based Critical	Thinking Questions			
	no has just bought a new nnected to her old compu		ermine how to connect this computer to the	
71. To connect her ex	xternal hard drive where	her music files are stored to th	e computer, Jess needs to use the port.	
a.	serial	b.	USB	
c.	network	d.	modem	
ANSWER:		b		
POINTS:		1		
REFERENCES:		71		
QUESTION TYPE:		Multiple Ch	oice	
HAS VARIABLES:		False		
PREFACE NAME:		Case 2-1		
TOPICS:		Critical Thi	8	
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72. Jess has pictures a(n) port.	from her old computer sa	aved on a flash drive. To trans	Fer these to her new computer, she would use	
a.	SCSI	b	IrDA	
c.	modem	d	USB	
ANSWER:		d		
POINTS:		1		
REFERENCES:		71		
QUESTION TYPE:		Multiple Cho	ce	
HAS VARIABLES:		False		
PREFACE NAME:		Case 2-1		

Name :	Class :		Dat e:
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TOPICS: DATE CREATED: DATE MODIFIED:	12/5/2	al Thinking 2013 4:47 PM /2013 1:58 PM	
Case-Based Critical Thinking Questions			
Case 2-2 Jack has a computer at home that he uses to access the I documents. Recently, he has come to realize that in order out regular system maintenance on the computer.			
73. Jack can speed up his computer by scanning it for vi	ruses and		
a. RAM	b.	Flash drives	
c. spyware	d.	bytes	
ANSWER:	c		
POINTS:	1		
REFERENCES:	78		
QUESTION TYPE:	Mul	tiple Choice	
HAS VARIABLES:	Fals	e	
PREFACE NAME:	Case	e 2-2	
TOPICS:	Crit	ical Thinking	
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74. Jack can use the program to locate and delete t and files in the Recycle Bin.	emporary fil	les, such as installation	on files, Web browsing history,
a. Windows Registry	b. Di	sk Defragmenter	
c. Temporary Files		indows Disk Cleanup)
ANSWER:	d	1	
POINTS:	1		
REFERENCES:	78		
QUESTION TYPE:		tiple Choice	
HAS VARIABLES:	Fals	•	
PREFACE NAME:		e 2-2	
TOPICS:		ical Thinking	
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75. Since Jack has a Windows system, he can right-click then select the option on the Tools tab to check that			xplorer, select Properties, and
a. Check now		x Defragmenter	
c. Defragment now		dows Disk Cleanup	
ANSWER:	a	p	

1

POINTS:

Name :	:	JIASS	Dat e:
Chapter 02: The System U	Unit: Processing and Memory		
REFERENCES:		78	
QUESTION TYPE:		Multiple Choice	
HAS VARIABLES:		False	
PREFACE NAME:		Case 2-2	
TOPICS:		Critical Thinking	
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76.	data consists of still images, suc	ch as photographs or drawing	gs.
ANSWER:		Graphics	
POINTS:		1	
REFERENCES:		54	
QUESTION TYPE:		Completion	
HAS VARIABLES:		False	
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77. One of the most comm thousands of dots, called	non methods for storing graphics da	ata is in the form of a bitmap	—a grid of hundreds of
ANSWER:		pixels	
POINTS:		1	
REFERENCES:		54	
QUESTION TYPE:		Completion	
HAS VARIABLES:		False	
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	resented by fixed-length binary cod and	ling systems specifically dev	eloped for text-based data—
ANSWER:	anu	Unicode	
POINTS:		1	
REFERENCES:		53	
QUESTION TYPE:		Completion	
HAS VARIABLES:		False	
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79 A(n)	is a thin board containing	chins and other electronic co	mnonents
ANSWER:		circuit board	imponents.
POINTS:		1	
REFERENCES:		56	
QUESTION TYPE:		Completion	
HAS VARIABLES:		False	
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80	are collections of electronic circuits containing microsc	copic pathways along which electrica
current can travel.		
ANSWER:	ICs Integrated circuits Integrated circuits (ICs) ICs (Integrated circuits)	
POINTS:	1	
REFERENCES:	56-57	
QUESTION TYPE:	Completion	
HAS VARIABLES:	False	
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81. The power supply inside computer.	e a desktop computer connects to the	to deliver electricity to the
ANSWER:	motherboard	
POINTS:	1	
REFERENCES:	57	
QUESTION TYPE:	Completion	
HAS VARIABLES:	False	
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82. Most CPUs today are of multiple independent pro		the processing components or cores
ANSWER:	multi-core	
POINTS:	1	
REFERENCES:	58	
QUESTION TYPE:	Completion	
HAS VARIABLES:	False	
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83	is a special group of very fast memory circuitry located	l on or close to the CPU.
ANSWER:	Cache memory	
POINTS:	1	
REFERENCES:	61	
QUESTION TYPE:	Completion	
HAS VARIABLES:	False	
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84. Like the CPU, RAM consists of circu	uits etched onto chips. These chips are arrar	nged onto circuit boards called
ANSWER:	memory modules	
POINTS:	1	
REFERENCES:	63	
QUESTION TYPE:	Completion	
HAS VARIABLES:	False	
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	ns on the motherboard into which expansion	a cards can be inserted to connect those
cards to the motherboard.		
ANSWER:	Expansion slots	
POINTS:	1	
REFERENCES:	66	
QUESTION TYPE:	Completion	
HAS VARIABLES:	False	
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86. Expansion buses connect directly to motherboard.	on the system unit	t case or to expansion slots on the
ANSWER:	ports	
POINTS:	1	
REFERENCES:	68-69	
QUESTION TYPE:	Completion	
HAS VARIABLES:	False	
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	nectors located on the exterior of the system	n unit that are used to connect external
hardware devices.	D. A	
ANSWER:	Ports	
POINTS:	1	
REFERENCES:	70	
QUESTION TYPE:	Completion	
HAS VARIABLES:	False	
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Chapter 02: The System Unit: Processing and Memory



88. The accompanying figure shows the n	nouse connected to the computer via a(n) .
ANSWER:	USB hub
POINTS:	1
REFERENCES:	71
QUESTION TYPE:	Completion
HAS VARIABLES:	False
PREFACE NAME:	Figure 2-17
DATE CREATED:	12/5/2013 4:47 PM
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89 computing u	atilizes atoms or nuclei working together as quantum bits that are capable of
representing more than just two states as in ANSWER:	
	Quantum
POINTS:	1 83
REFERENCES:	
QUESTION TYPE:	Completion
HAS VARIABLES:	False
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· /	n be used with peripheral devices adhering to the Secure Digital Input/Output
(SDIO) standard.	
ANSWER:	SD Secure Digital
DODITC.	Secure Digital
POINTS:	1 73
REFERENCES:	
QUESTION TYPE:	Completion
HAS VARIABLES:	False
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	ates and controls the operations and activities taking place within the CPU, such
as retrieving data and instructions and pas	sing them on to the ALU or FPU for execution.

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ANSWER:	control unit	
POINTS:	1	
REFERENCES:	74-75	
QUESTION TYPE:	Completion	
HAS VARIABLES:	False	
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	s more than one piece of microcode at one time ele to process multiple instructions per cycle (II	
ANSWER:	superscalar).
POINTS:	1	
REFERENCES:	76	
QUESTION TYPE:	Completion	
HAS VARIABLES:	False	
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93. As large documents are stored, re not stored in contiguous (adjacent) st	trieved, and then stored again, they often become orage areas.	me—that is,
ANSWER:	fragmented	
POINTS:	1	
REFERENCES:	77	
QUESTION TYPE:	Completion	
HAS VARIABLES:	False	
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94 are tiny.	, hollow tubes made up of carbon atoms.	
ANSWER:	CNT	
	Carbon nanotubes Carbon nanotubes (CNT) CNT (Carbon nanotubes)	
POINTS:	1	
REFERENCES:	82	
QUESTION TYPE:	Completion	
HAS VARIABLES:	False	
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95. The chi	p is estimated to be 100 times faster than silicon	n.
ANSWER:	graphene	

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POINTS:

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80 REFERENCES:

QUESTION TYPE: Completion HAS VARIABLES: False

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96. Explain what a register is and how it is used.

ANSWER: A register is high-speed memory built into the CPU. Registers are used by the CPU to temporarily

store data and intermediary results during processing. Registers are the fastest type of memory used by the CPU, even faster than Level 1 cache. Generally, the more data a register can contain at one

time, the faster the CPU performs.

POINTS: 1 REFERENCES: 65 OUESTION TYPE: Essay HAS VARIABLES: False

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97. Of what does ROM (read-only memory) consist? What is one important difference between ROM and RAM (random access memory)?

ANSWER: ROM (read-only memory) consists of nonvolatile chips that permanently store data or programs. Like

> RAM, these chips are attached to the motherboard inside the system unit, and the data or programs are retrieved by the computer when they are needed. An important difference, however, is that you can neither write over the data or programs in ROM chips (which is the reason ROM chips are called

read-only), nor destroy their contents when you shut off the computer's power.

POINTS: 1 REFERENCES: 65 **QUESTION TYPE:** Essay HAS VARIABLES: False

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98. What are the general operations of a machine cycle?

ANSWER: Each machine cycle consists of the following four general operations:

- 1. Fetch—the program instruction is fetched.
- 2. Decode—the instructions are decoded so the control unit, ALU, and FPU can understand them.
- 3. Execute—the instructions are carried out.
- 4. Store—the original data or the result from the ALU or FPU execution is stored either in the CPU's

registers or in memory, depending on the instruction.

POINTS: 1 REFERENCES: 76 **QUESTION TYPE:** Essay

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99. Explain the difference between multiprocessing and parallel processing.

ANSWER: With multiprocessing, each CPU typically works on a different job. Because multiple jobs are being

processed simultaneously, they are completed faster than with a single processor. With parallel processing, multiple processors work together to make one single job finish sooner; a control

processor assigns a portion of the processing for that job to each CPU.

POINTS: 1

REFERENCES: 80-81 QUESTION TYPE: Essay HAS VARIABLES: False

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100. Describe how Hyper-Threading Technology works.

ANSWER: Hyper-Threading Technology is a technology developed by Intel to enable software to treat a single

processor as two processors. Since it utilizes processing power in the chip that would otherwise go unused, this technology lets the chip operate more efficiently, resulting in faster processing, provided

the software being used supports Hyper-Threading.

POINTS: 1
REFERENCES: 81
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