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Chapter 02: Comput	ters: The Machin	nes Behind Computing	
1. An object code must	be translated into s	ource code for a computer to be	able to read and execute it.
	a.	True	
	b.	False	
ANSWER:			False
2. The hardware compo	nent of a computer	system consists of programs wr	itten in computer languages.
	a.	True	
	b.	False	
ANSWER:			False
3. Both the arithmetic lo	ogic unit (ALU) an	d the control unit are part of the	Basic Input/Output System.
	a.	True	
	b.	False	
ANSWER:			False
4. A computer with a 32 numbers than a 64-bit sy		perform calculations with larger	numbers and be more efficient with smaller
	a.	True	
	b.	False	
ANSWER:			False
5. ENIAC is an example	e of a first-generati	on computer.	
	a.	True	
	b.	False	
ANSWER:			True
6. Very-large-scale integ	gration (VLSI) circ	cuits were introduced in the fifth-	generation computers.
	a.	True	
	b.	False	
ANSWER:			False
7. A byte is a single value	ue of 0 or 1.		
	a.	True	
	b.	False	
ANSWER:			False
8. Extended ASCII is a	data code that allo	ws the representation of 1024 ch	aracters.
	a.	True	
	b.	False	
ANSWER:			False
9. Computers can store	massive amounts o	f data in small spaces.	
	a.	True	
	b.	False	

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ANSWER:			True
10. The split keyboard was	developed for	better ergonomics.	
	a.	True	
	b.	False	
ANSWER:			True
11. Inkjet printers produce	characters by p		droplets of ink onto paper that create an image.
	a.	True	
	b.	False	
ANSWER:			True
12. In a network-attached s	torage (NAS),	as the number of users increa	ses, its performance increases.
	a.	True	
	b.	False	
ANSWER:			False
13. A server is a set of prog	grams for contro	olling and managing compute	er hardware and software.
	a.	True	
	b.	False	
ANSWER:			False
14. A personal computer ca or software developed in ho		riety of tasks by using applica	ation software, which can be commercial software
1	a.	True	
	b.	False	
ANSWER:			True
15. Sometimes, fourth-gene	eration languag	es (4GLs) are called procedu	ral languages.
, 5	a.	True	
	b.	False	
ANSWER:			False
16. A(n) is a step-by understand.	-step direction	for performing a specific task	x, which is written in a language the computer can
	a.	array	
	b.	server	
	c.	cache	
	d.	program	
ANSWER:			d
17. A is a peripheral	device for reco	ording, storing, and retrieving	information.
a.	disk drive		
b.	motherbo	ard	

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	(c.	control unit		
	(d.	multiprocessor		
ANSWER:					a
18. A(n)				d a printer that enables the c	omputer to transfer multiple bits of
information	_				
	a. b.	_	rallel port ial port		
			-		
	c. d.		thmetic logic unit ntrol unit		
ANSWER:	u.	COI	inoi unit		a
mon Lik.					u
19. A	_ is a link	between	devices connected to a	computer.	
		a.	motherboard		
		b.	control unit		
		c.	disk drive		
		d.	bus		
ANSWER:					d
20. A(n)	is a co	ommunic	cation interface through	which information is transfe	erred one bit at a time
20.71(11)	a.	serial	-	winen information is transfe	area one on at a time.
	b.		el port		
	c.	-	ded capability port		
	d.		ced parallel port		
ANSWER:			1 1		a
21. Beginni	-		rst-generation computer	s used	
	a.	transis			
	b.		m tube technology		
	C.	_	ated circuits		
ANSWER:	d.	laser to	echnology		h
ANSWEK.					b
22. Second-	generation	n compu	ters used		
	a.	vacuu	m tube technology		
	b.	transis	stors		
	c.	integra	ated circuits		
	d.	laser t	echnology		
ANSWER:					b
22 TEL: 1			:		
23. Inira-ge	eneration (a.	_	rs introduced emote data entry		
	a. b.		niniaturization		
	υ.	113	mnatunzanun		

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	c.	parallel proces	ssing			
	d.	optical discs	C			
ANSWER:		•				a
24. Identify arsenide.	the drawback	of silicon becaus	se of which con	mputer designers	concentrate on technological	ogies that use gallium
a.	Silicon cannot	t be used for mas	s production o	f silicon devices.		
b.	Silicon cannot	t emit light and h	as speed limita	ations.		
c.	Silicon is very	soft and fragile.				
d.	Silicon is very	expensive.				
ANSWER:						b
a.	it is less fragile	on over gallium a	senide		1.	
		en nigher doses c nigher temperatur		n gallium arsenid	ie	
		whereas gallium	_			
ANSWER:	it eiiits iigiit, v	whereas gamum	arsemue does i	пот		a
26		lata in a amanatan a				
26 r	neans saving d a.	lata in computer i Strear				
	a. b.					
	c.	Syndi				
	d.	Storag				
ANSWER:	u.	Storag	30			d
27. TI	1 ,		1 . 1	1		
27. The wo	rd <i>computer</i> co	onsists of 64 bits, a.	which is equi	valent to b	ytes.	
		а. b.		8		
		о. С.		16		
		d.		32		
ANSWER:		u.		32		ь
28. A	_ is the size of	a character.				
		a.	nibble			
		b.	bit			
		c.	byte			
		d.	word			
ANSWER:						c
29. Comput				represent and tra	ansfer information betwe	een computers and
	a	a. intr	anetos			

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b.	light per	ns	
c.	data cod		
d.	prototyp	pes	
ANSWER:			c
•	each alphabetic, n Code Decimal In	-	epresented with a 7-bit binary number
		rmation Interchange	
d. Extended ASCII			
ANSWER:			c
a. indeb. hex c. octa	ex number kadecimal number al number ary number	keyboard is represented as a	in computer memory.
INSWER.			u
32. Extended ASCII data code	allows represent	tation of characters.	
	a.	1042	
	b.	265	
	c.	256	
A MOHIER	d.	1024	
INSWER:			c
3. An ASCII file defines up t	to characte	ers.	
•	a.	8	
	b.	128	
	c.	258	
	d.	1024	
ANSWER:			b
34. A petabyte is equal to	bytes.		
	, a.	2^{30}	
	b.	2^{40}	
	c.	2^{50}	
	d.	2^{60}	
	u.	2**	
ANSWER:			c

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b	. keyboard		
c	•		
d	l. kernel		
ANSWER:			c
36. Trackballs are ideal	for notebook compute	ers because they	
a. occupy less s	pace than a mouse		
• •		which menu item has been selected	
	l over a wider surface		
	more precise cursor po	ositioning than a mouse	
ANSWER:			a
37. Which of the follow	ing is an input device	?	
a.	Touch screen		
b.	Cathode ray tube		
c.	Liquid crystal displa	ay	
d.	Inkjet printer		
ANSWER:			a
38. Identify an advantag	ge of using a mouse ov	ver a trackball.	
a. The size of a	mouse is smaller than	that of a trackball.	
b. Positioning v	vith a mouse is more p	precise than with a trackball.	
c. A mouse occ	upies less space than a	a trackball.	
d. A mouse is s	tationary, whereas a tr	rackball has to be moved around.	
ANSWER:			b
39. Identify an input dev	vice used to grade mul	Itiple-choice and true/false tests.	
• •	aracter reader (OCR)	•	
b. Magnetic	character sensor (MCS	S)	
c. Magnetic	ink character recognit	ion (MICR) system	
d. Optical m	ark recognition (OMR	L) system	
ANSWER:			d
40. A(n) is a com	amon output device for	r soft copy.	
a.	liquid crystal displa	- ·	
b.	floppy disk		
c.	laser printer		
d.	electrostatic plotter		
ANSWER:			a
41. Which of the follow a. An inkjet printe		of inkjet printers? k cartridges to print digital photographs.	

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b. An inkjet printer's output is called a soft copy.

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c. An inkje toner.	t printer uses laser-based technolog	gy that creates electrical charges	s on a rotating drum to attract
d. An inkje requiren	t printer is used in large office envents.	ironments with high-volume and	d high-quality printing
ANSWER:			a
42. Identify a tru	e statement about laser printers.		
~	printers use toners to create high-	quality output.	
	printers are used to generate three		
	printers use plotters to create high	-	
	r printers use solid ink to generate t	* * *	
ANSWER:		1	a
	n is nonvolatile, holds data when the ore large volumes of data for long random access memory Read-only memory Secondary memory		course of a program's operation, and it
d.	Programmable read-only memor	TV	
ANSWER:	Trogrammatic read only memor	J	c
44. The Clipboar	rd's contents are typically stored in		
a.	read-only memory (ROM)		
b.	random access memory (RAM)	1	
c.	magnetic disks		
d.	magnetic tapes		
ANSWER:			b
a. ROM	only memory (ROM) different from is volatile memory, whereas RAM	I is nonvolatile memory.	<i>M</i>)?
	is a secondary memory, whereas I	• •	
c. ROM	is nonvolatile memory, whereas R	AM is volatile memory.	
d. ROM	is a read-write memory, whereas I	RAM is read only memory.	
ANSWER:			c
46. Which of the	following memory devices allows	data to be read and written?	
a.	magnetic storage		
b.	optical storage		
c.	random access memory (RAM)		
d.	read-only memory (ROM)		
ANSWER:	/		c

47. Identify a true statement about memory devices.

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a. The contents of fl	ash memory canno	t be reprogrammed.	
	•	ory cannot be reprogrammed.	
		only memory cannot be reprogrammed.	
d. The contents of ca	ache random access	s memory cannot be reprogrammed.	
ANSWER:			c
48. Which of the following	-	etic tapes?	
	nade of metal.		
	res data sequentially		
	embles a compact di		
	main memory devi	ce.	
ANSWER:			ь
49. A write once, read many	y (WORM) disc is a	a common type of	
a. magnet	ic storage		
b. optical	storage		
	access memory (R		
d. read-on	aly memory (ROM)		
ANSWER:			b
50. CD-ROMs and DVDs a	are examples of		
	agnetic tapes		
	agnetic disks		
c. or	ptical discs		
d. m	ain memory device	rs .	
ANSWER:	•		c
51 Δ allows data to	he stored in multin'	le places to improve a system's reliability.	
	cess server	te places to improve a system s remainity.	
	attached storage		
	ccess memory		
	t array of independe	ent disks	
ANSWER:	7		d
52 storage, which is by third parties.	used for online sto	rage and backup, involves multiple virtual ser	vers that are usually hosted
-	a.	Kernel	
	b.	Buffer	
	c.	Cache	
	d.	Cloud	
ANSWER:			d
53 Identify the computer th	nat has the highest s	etoraga ganahility	

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	a.	Subnotebooks	
	b.	Notebooks	
	c.	Personal computers	
	d.	Supercomputers	
ANSWER:			d
	of the	a document from his computer through a printer place following allows the employee to connect to network Remote access servers	
b	-	Web servers	
c	-	Application servers	
d		Disk servers	
ANSWER:	-	2.55.001,010	a
55 Which of the	follor	ving is the OS for most DCs and halance to the greaten	a coftwore curve?
	a.	ving is the OS for most PCs and belongs to the systen Microsoft Windows	i software group?
	b.	Microsoft Excel	
	c.	Microsoft Access	
	d.	Microsoft Publisher	
ANSWER:	u.	Wheresore I donished	a
a. It is a setb. It is a conc. It is a col	of prompute	ving best defines an operating system? ograms for controlling and managing computer hardward and all the software for managing network resource n of disk drives used for fault tolerance, typically in lircuit board containing connectors for attaching additional containing connectors.	s and offering services to a network. arge network systems.
a. It contb. It priorc. It trans	rols a ritizes sfers o	ment about the supervisor program. If the programs in the OS to perform special tasks, tasks performed by the CPU. If at a among other parts of a computer system, checksum programs to verify that data is not corrupted.	ed.
ANSWER:		vice in the programme to verify that a more to recomply	a
tasks performed b	y the		m the function to control and prioritize
a.		application management	
b.		resource management	
c.		data management	
d.		job management	ı
<i>ANSWER:</i>			d

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59. The super	visor p	rogram in an	operating system (OS) is called the	
		a.	kernel	
		b.	metadata	
		c.	applet	
		d.	cache	
ANSWER:				a
60. UNIX is a	a type c	of .		
	a.		area network	
	b.	applica	tion software	
	c.	remote	access server	
	d.	operati	ng system	
ANSWER:				d
61. sof	ftware i	s used for dra	fting and has replaced traditional tools, such a	as T-squares, triangles, paper, and pencils.
	a.	Graphics	-	
	b.	Project n	nanagement	
	c.	Compute	r-aided design	
	d.	Presenta	ion	
ANSWER:				c
62. coi	mputer	languages ar	e machine independent and are called high-lev	vel languages.
02	a.		generation	or minguages.
	b.		nd-generation	
	c.		-generation	
	d.	Four	h-generation	
ANSWER:				c
	_			
63. Java and	C++ are		lages.	
		a.	assembly	
		b.	high-level	
		C.	machine	
ANCINED		d.	compiler	1
ANSWER:				ь
64. Identify a	compu		that is machine dependent.	
	a.	High-level l		
	b.	Assembly la		
	c.		narkup language	
	d.	Structure qu	ery language	
ANSWER:				b
65. Which of	the foll	lowing comp	uter languages use mnemonics to represent da	ta?

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	a.b.c.d.	Assembly language First-generation language Fourth-generation language Machine language		
ANSWER:				a
66. A source A. binary B. object C. machine D. assembly		nust be first translated into	code.	
ANSWER:				object
A. main mer B. Basic Inp	mory out/Outp rocessin	is the heart of a computer. ut System (BIOS) g unit (CPU)		
ANSWER:		central processing	g unit (CPU)	
A. mouse B. printer C. monitor D. speaker	is	an input device for computers.		
ANSWER:			N	louse
69. The A. main men B. motherbo C. operating D. control u	mory oard system	•	uch as instructing the comp	uter which device to read or send output to.
ANSWER:			control unit	
70. A(n) A. disk driv B. computer C. expansion D. parallel p	e chassis n slot	is the enclosure containing a co	omputer's main components	5.
ANSWER:		co	omputer chassis	
		puters include parallel processing thips and optical technologies.	ng, gallium arsenide chips th	nat run at higher speeds and consume less

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Chapter 02: Computers: T	The Machines Behind Computing		
A. Second-generation			
B. Third-generation			
C. Fourth-generation			
D. Fifth-generation			
ANSWER:	Fifth-generation		
72 bits equal 1 by	te.		
A. Six			
B. Eight			
C. Twenty four			
D. Thirty two			
ANSWER:		Eight	
73 The most common type of	main memory is a semiconductor memo	ory chin made of	
A. arsenic	main memory is a semiconductor memo	sry emp made or	
B. germanium			
C. silicon			
D. manganese			
ANSWER:		silicon	
74. A, made of My	ylar, is used for random-access processin	ng of data in a computer.	
A. magnetic tape			
B. hard disk			
C. cassette tape			
D. magnetic disk			
ANSWER:	magnetic disk		
75. A(n) , a memor	y device, uses laser beams to access and	l store data.	
A. magnetic tape			
B. memory chip			
C. optical disc			
D. digital card			
ANSWER:	Optical dis	isc	
	with the IBM System/360 line introduce	eed in 1965.	
A. Minicomputers			
B. Mainframe computers			
C. Personal computers D. Super computers			
ANSWER:	Mainframe computers		
	-	thair yyarkatatiana	
77store computer	r software, which users can access from t	men workstations.	

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Chapter 02	2: Computers: The Machines	Behind Computin	g		
A. Database B. Web serv C. Applicati D. File serve	ers on servers				
ANSWER:	2	Application servers			
78. Microso A. desktop p B. presentat C. graphics D. project m	ion	ly useds	oftware.		
Feedback: Microsoft PowerPoint is the most commonly used presentation software; other examples include Adobe Persuasion and Corel Presentations. See 2-7b: Application Software.					
A. word-pro B. spreadsho C. database D. desktop p	oublishing				
Feedback: C Application ANSWER:	Common spreadsheet software inclu Software.	ides Microsoft Excel spread		el Quattro Pro. See 2-7b:	
80. Codes w A. assembly B. structured C. fourth-gen D. fifth-gen	d query neration	ng langu	age do not work on another ty	pe of computer.	
Feedback: Assembly language, the second generation of computer languages, is a higher-level language than machine language, but is also machine dependent. See 2-8: Computer Languages. ANSWER: assembly					
81. Provide a general description of how to write a computer program. ANSWER: To write a computer program, first a user must know what needs to be done, and then he or she must plan a method to achieve this goal, including selecting the right language for the task. Many computer languages are available; the language the user selects depends on the problem being solved and the type of computer he or she is using.					
82. What is <i>ANSWER</i> :	a bus on a network? A bus is a link between devices contact external.	onnected to the comp	uter. It can be parallel or seria	al, internal (local) or	
83. Write a	short note on single processor and	multiprocessor syster	ns.		

ANSWER: Some computers have a single processor; other computers, called multiprocessors, contain multiple

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processors. Multiprocessing is the use of two or more CPUs in a single computer system. Generally, a multiprocessor computer has better performance than a single-processor computer in the same way that a team would have better performance than an individual on a large, time-consuming project.

84. What is a motherboard?

ANSWER:

A motherboard is the main circuit board containing connectors for attaching additional boards. In addition, it usually contains the CPU, Basic Input/Output System (BIOS), memory, storage, interfaces, serial and parallel ports, expansion slots, and all the controllers for standard peripheral devices, such as the display monitor, disk drive, and keyboard.

85. Describe how computer speed is measured.

ANSWER:

Typically, computer speed is measured as the number of instructions performed during the following fractions of a second:

a. Millisecond: 1/1,000 of a second

b. Microsecond: 1/1,000,000 of a second

c. Nanosecond: 1/1,000,000,000 of a second

d. Picosecond: 1/1,000,000,000,000 of a second

86. Describe a binary system in computers.

ANSWER:

Every character, number, or symbol on the keyboard is represented as a binary number in computer memory. A binary system consists of 0s and 1s, with a 1 representing "on" and a 0 representing "off," similar to a light switch.

87. Describe touch screen.

ANSWER:

Touch screen, which usually works with menus, is a combination of input devices. Some touch screens rely on light detection to determine which menu item has been selected, and others are pressure sensitive. Touch screens are often easier to use than keyboards, but they might not be as accurate because selections can be misread.

88. What are the most common output devices for soft copy?

ANSWER: The most common output devices for soft copy are cathode ray tube (CRT), plasma display, and liquid crystal display (LCD).

89. What are the three main types of secondary memory devices?

ANSWER: There are three main types of secondary memory devices: magnetic disks, magnetic tape, and optical discs.

90. What is the reason for the popularity of memory sticks?

ANSWER: Memory sticks have become popular because of their small size, high storage capacity, and decreasing cost.

91. Explain how a redundant array of independent disks (RAID) provides fault tolerance and improves performance.

ANSWER: With RAID, data can be stored in multiple places to improve the system's reliability. In other words, if one disk in the array fails, data is not lost. In some RAID configurations, sequences of data can be read from multiple disks simultaneously, which improves performance.

92. What are fax servers?

ANSWER: Fax servers contain software and hardware components that enable users to send and receive faxes.

93. What are print servers?

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ANSWER: Print servers enable users to send print jobs to network printers.

94. Describe desktop publishing software.

ANSWER: Desktop publishing software is used to produce professional-quality documents without expensive hardware and software. This software works on a "what-you-see-is-what-you-get" concept, so the high-quality screen display gives a user a good idea of what he or she will see in the printed output.

95. What is assembly language? Provide an example.

ANSWER: Assembly language is the second generation of computer languages. It is a higher-level language than machine language but is also machine dependent. It uses a series of short codes, or mnemonics, to represent data or instructions. For example, ADD and SUBTRACT are typical commands in assembly language. Writing programs in assembly language is easier than in machine language.

96. Describe the use of gallium arsenide as a replacement for silicon.

ANSWER: Because silicon cannot emit light and has speed limitations, computer designers have concentrated on technology using gallium arsenide, in which electrons move almost five times faster than in silicon. Devices made with this synthetic compound can emit light, withstand higher temperatures, and survive much higher doses of radiation than silicon devices. The major problems with gallium arsenide are difficulties in mass production. This material is softer and more fragile than silicon, so it breaks more easily during slicing and polishing. Because of the high costs and difficulty of production, the military is currently the major user of this technology. However, research continues to eliminate some shortcomings of this technology.

97. Discuss the three basic tasks performed by computers.

ANSWER: Computers can perform three basic tasks: arithmetic operations, logical operations, and storage and retrieval operations.

Computers can add, subtract, multiply, divide, and raise numbers to a power (exponentiation), as shown in these examples:

A + B (addition): 5 + 7 = 12A - B (subtraction): 5 - 2 = 3A * B (multiplication): 5 * 2 = 10A / B (division): 5 / 2 = 2.5A ^ B (exponentiation): $5 ^ 2 = 25$

Computers can perform comparison operations by comparing two numbers. For example, a computer can compare x to y and determine which number is larger.

Computers can store massive amounts of data in very small spaces and locate a particular item quickly. For example, a person can store the text of more than one million books in a memory device about the size of his or her fist.

98. What is the most common type of main memory? Describe the purpose of cache RAM.

ANSWER: The most common type of main memory is a semiconductor memory chip made of silicon. A semiconductor memory device can be volatile or nonvolatile. Volatile memory is called random access memory (RAM), although you could think of it as "read-write memory." In other words, data can be read from and written to RAM. Some examples of the type of information stored in RAM include open files, the Clipboard's contents, running programs, and so forth.

A special type of RAM, called cache RAM, resides on the processor. Because memory access from main RAM storage generally takes several clock cycles (a few nanoseconds), cache RAM stores recently accessed memory so the processor is not waiting for the memory transfer.

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99. Describe the data management function of an operating system.

ANSWER: The data management function of an operating system controls data integrity by generating checksums to verify that data has not been corrupted or changed. When the OS writes data to storage, it generates a value (the checksum) along with the data. The next time this data is retrieved, the checksum is recalculated and compared with the original checksum. If they match, the integrity is intact. If they do not, the data has been corrupted somehow.

100. Describe fifth-generation languages (5GLs) and some of their features.

ANSWER: Fifth-generation languages (5GLs) use some of the artificial intelligence technologies, such as knowledge-based systems, natural language processing (NLP), visual programming, and a graphical approach to programming. Codes are automatically generated and designed to make the computer solve a given problem without a programmer or with minimum programming effort. These languages are designed to facilitate natural conversations between a user and the computer. Imagine that the user could ask his or her computer, "What product generated the most sales last year?" The computer, equipped with a voice synthesizer, could respond, "Product X." Dragon NaturallySpeaking Solutions is an example of NLP. Research continues in this field because of the promising results so far.