## Fundamentals of Information Systems 9th Edition Stair Test Bank Full Download: https://alibabadownload.com/product/fundamentals-of-information-systems-9th-edition-stair-test-bank/ Class: Name: Date: Chapter 2 - Hardware and Software True / False 1. Each central processing unit (CPU) produces a series of electronic pulses at a predetermined rate, called the clock speed, which affects machine cycle time. a. True b. False ANSWER: True 2. RAM stands for random access memory; a form of memory that holds its contents even if the current is turned off or disrupted. a. True b. False ANSWER: False 3. You have lots of images on your hard drive totaling 500 million bytes. A 2 Gigabyte storage device will be adequate to store those photos a. True b. False ANSWER: True 4. Massively parallel processing systems are a form of multiprocessing that speeds processing by linking hundreds or thousands of processors to operate at the same time. a. True b. False ANSWER: True 5. Secondary storage can store large amounts of data, instructions, and information more permanently than allowed with main memory. a. True b. False ANSWER: True 6. Virtual tape technology can decrease data access time, lower the total cost of ownership, and reduce the amount of floor space consumed by tape operations. a. True b. False ANSWER: True 7. In a typical computer configuration, secondary storage has a much larger capacity than the volatile random access memory. a. True b. False ANSWER: True

8. Solid state storage devices (SSDs) store data in hard disk drives or optical media rather than memory chips.

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a. True

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b. False		
ANSWER: False		
	nctions by exciting organic compounds with el-	ectric current to produce bright and
sharp images. a. True		
b. False		
ANSWER: False		
2 10 11 22 10 12 10 10 10 10 10 10 10 10 10 10 10 10 10		
be unethical.	ters to build human parts and organs from actua	al human cells, is widely considered to
a. True		
b. False		
ANSWER: False		
organizations but then outsource the	ational or global organizations, vendors often se e technical support to local, third-party distribut	
a. True		
b. False		
ANSWER: True		
12. The need for additional data stor	rage capacity is one of the factors driving the gr	rowth in data centers.
b. False		
ANSWER: True		
13. Thin client computers are a type	of portable single-user computers.	
a. True	r · · · · · · · · · · · · · · · · · · ·	
b. False		
ANSWER: False		
	uter manufacturers in the areas of price and perfew business strategy for these companies to dis	
a. True		
b. False		
ANSWER: True		
15. The scope of green computing is all types of computers.	s limited to the efficient and environmentally re	esponsible design and manufacture of
a. True		
b. False		
ANSWER: False		
16. Some smartphones allow vou to	take notes and to "write" emails or text message	ges by speaking into the phone. These

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a. True b. False ANSWER: True		
17. Depending on the brand of tablet you p screen with a stylus, or speaking into the ta a. True b. False  ANSWER: True		by typing on a keyboard, writing on the
<ul><li>18. An operating system is a set of program applications.</li><li>a. True</li><li>b. False</li><li>ANSWER: True</li></ul>	ns that controls the computer hardware	e and acts as an interface with
19. The operating system converts a basic requires, thus acting as an intermediary bet a. True b. False  ANSWER: True		
20. The operating system's application probuild application software without needing a. True b. False  ANSWER: True		
<ul><li>21. A command-based user interface employ</li><li>a. True</li><li>b. False</li><li>ANSWER: False</li></ul>	bys icons and menus that people use to	send commands to the computer system.
22. Most operating systems support virtual functional memory capacity of RAM.  a. True b. False  ANSWER: True	memory which allocates space on the	hard disk to supplement the immediate,
<ul><li>23. If 10 users can run programs at the sam</li><li>a. True</li><li>b. False</li><li>ANSWER: False</li></ul>	ne time on the same computer, it is kno	own as <i>multi-tasking</i> .

24. Your friend has a Mac that runs OS X. If she needs to run a Windows app on it, she can set it to run Windows also.

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a. True b. False  ANSWER: True		
ANSWER. True		
	to the use of open-source software because it rding the software are usually readily availab	
b. False		
ANSWER: True		
26. An embedded system is a compute a. True b. False	er system that is implanted in and dedicated to	the control of another device.
ANSWER: True		
ANSWER. True		
jobs, and compress data files.	naintenance, correct problems, merge and sor	rt sets of data, keep track of computer
a. True		
b. False		
ANSWER: True		
28. The primary function of application the entire enterprise to solve problems a. True	on software is to apply the power of the comp and perform specific tasks.	uter to enable people, workgroups, and
b. False		
ANSWER: True		
29. Proprietary software is mass-productions, or individuals.  a. True  b. False	uced by software vendors to address needs that	at are common across businesses,
ANSWER: False		
a monthly service charge or a per use a. True	vs businesses to subscribe to Web-delivered b fee.	business application software by paying
b. False		
ANSWER: True		
31. Software as a Service (SaaS) refer Internet rather than local computers.	s to the use of computing resources, including	g software and data storage, on the

b. False *ANSWER:* False

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32. A software suite is a collection of prograspreadsheet program, graphics program, and a. True		cypically includes a word processor,
b. False		
ANSWER: True		
33. Suppose your friend, who is a small busi payroll, and inventory management. She we a. True		
b. False		
ANSWER: False		
34. Each programming language has a set of a. True	rules, called the program code of the la	anguage.
b. False		
ANSWER: False		
35. A single computer can be used by a sing a. True	le user or by multiple, simultaneous use	ers.
b. False		
ANSWER: True		
36. An example of a common hardware function or printer.	ction performed by the operating system	is presenting information on a
a. True		
b. False		
ANSWER: True		
37. Operating systems provide a measure of use as well as other users' resources if those		those resources they've been cleared to
a. True		
b. False		
ANSWER: False		
38. Utility programs are used to perform sys security, and optimizing sluggish system pro	<del>_</del>	ors on a hard drive, improving system
b. False		
ANSWER: True		
ANSWER: True		
39. If a large organization wants software the software—the organization must develop it software.		
b. False		
ANSWER: False		

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40. The use of virtual se operating expenses.  a. True  b. False  ANSWER: True	ervers is growing rapidly b	because virtualization can save	millions of dollars per year in capital and
41. Software can be div a. True b. False ANSWER: False	ided into two types: opera	ating software and application s	software.
42. Software that allow	s an individual to create a ersonal sphere of influence		anize tasks in a database would be
Multiple Choice			
delivers an organization a. data mart b.	e-and-access-controlled by 's data and information so data warehouse data mine		at houses the computer hardware that
	o. nonvolatile	t if the power is turned off or in	nterrupted is said to be
coordinated manner to s a. Cloud computing	olve a common problem.		or different organizations, to work in a
disposal of IS-related pr a. Green computing			nsible design, manufacture, operation, and
47. The component of a called the  a. main memory c. bus		he CPU with a working storage	e area for program instructions and data is

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ANSWER: a		
48. Carson's supervisor has asked him to re employees. Which of the following should a. laptops b. notebooks c. nettops d. tablets  ANSWER: c		or possible purchase for their company's
49 is a storage technology that is print a. Magnetic disk b. Compact disc c. Magnetic tape d. Cache memory ANSWER: c		
1 0 1 1	ed to make solid products same as 2D printing	
51. A(n) device provides data and in a. back-side b. expansion c. internal d. input/output ANSWER: d	structions to the computer and receives	s results from it.
52 are used in standardized tests, inc a. Magnetic Ink Character Recognition c. Speech recognition devices ANSWER: b	(MICR) devices b. Optical mark re	to record votes in elections. ecognition (OMR) systems ter recognition (OCR) systems
53. Helen is 72 years old and is a retired sol she can communicate via email, follow frie tips from the Web. An important thing to co work with small buttons and gadgets. So, or a. smartphone b. e-book c. desktop d. nettop  ANSWER: d	nds and family on social media, and oc onsider is that Helen has arthritis in her	casionally access recipes and gardening hands, making it difficult for her to
54 are used to support engineering a assisted design (CAD), video editing, and of a. Desktops b. Netbooks c. Workstations d. Notebooks  ANSWER: c		
55. A is a low-cost, centrally manage limited capabilities.  a. nettop computer b. cloud compute	-	al attached drives for data storage with

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c. thin client	d. workstation		
ANSWER: c			
56 are the most pow	erful computer	rs with the fastest processing speed and	l highest performance.
a. Blade servers	b. Work		
c. Mainframe computer	s d. Super	computers	
ANSWER: d			
57. CPU clock speed is the		at a predetermined rate.	
a. number of instruction	-	•	ed
c. number of files creat	ed	d. number of memory pages loaded	
ANSWER: b			
58. Which of the following three types?	types of credit	cards is currently diminishing in popul	larity and being replaced by the other
a. magnetic stripe b	. chip card		
c. smart card	l. contactless p	payment card	
ANSWER: a			
<ul><li>a. A server in a restaura</li><li>b. A nurse in a hospital</li><li>c. A barrista in a coffee</li></ul>	ant uses a POS uses a POS to e store uses a P	ample of a common use of a point-of-sa to communicate a diner's order to the enter a patient's vital signs into his rec POS to record a sale of some bakery iter	kitchen. cords.
ANSWER: d	es a POS to wi	thdraw money for a customer.	
to achieve a common goal.	that operates in kgroup	n the sphere of influence support	ts two or more people who work together
c. enterprise d. soci	al		
ANSWER: b			
61. An operating system wi a. networking c. memory managemen	b. hardw	bilities allows a user to run more than of are independence asking	one program concurrently.
ANSWER: d			
62 The is the heart of	f the operating	a system and controls its most critical p	aragassas
	register	g system and controls its most critical p	Tocesses.
	cache		
ANSWER: c			
63 is an anan assumas	onoroting or	tom whose source and is freely evoiled	blo to avaryana
a. Linux b. Mac 0		tem whose source code is freely available	one to everyone.
c. Chrome d. Unix			

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ANSWER: a		
64. Which of the following statements is <b>NOT</b> true	e about a mainframe con	mputer?
<ul> <li>a. A single computer with a single user is typical of a mainframe computer.</li> </ul>		computer provides the computing and ty to meet massive data processing
<ul> <li>c. A mainframe computer offers users high performance and excellent system availability.</li> </ul>		of application software has been developed nainframe environment.
ANSWER: a		
65. New cars come with an onboard computer that software is known as	t controls anti-lock brake	es, air bag deployment, fuel injection, etc. The
a. a multi-user system b. an embedded sy		
c. an enterprise system d. mobile application <i>ANSWER</i> : b	ion software	
ANSWER. U		
66. Today's mobile phones and some PCs use a to computer.	uch user interface called	d a to allow people to control the personal
	nmand-based user interf	ace
c. speech recognition user interface d. nati	ural user interface	
ANSWER. U		
67. One of the <u>disadvantages</u> of proprietary softw		·
<ul> <li>a. it is hard to control results even if one is in in the development of software</li> </ul>		e a long time and significant resources to he required software features
<ul> <li>c. it does not allow modification of features that one might need to counteract an initiati by competitors</li> </ul>		cult to achieve what is required in terms of and reports
ANSWER: b		
68. One of the advantages of off-the-shelf software	e is that	
a. an organization does not have to pay for fear required and never used		b. the software always matches current work processes and data standards
c. the initial cost is lower because the software development costs over many customers	e firm can spread the	d. the software contains important features, thus eliminating the need for future modification and customization
ANSWER: c		
69. The use of middleware to connect disparate sy	stems has evolved into	an annroach for developing software and
systems called	stems has evolved fille	an approach for developing software and
	oplication development	
c. service-oriented architecture d. Softwar <i>ANSWER</i> : c	re as a Service	

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	rietary software versus off-the-sh		
a. the initial cost is lov	ver		s likely to meet the basic business e common across organizations
	y to be of high quality because as have tested the software and augs	-	provides a company a competitive solving problems in a unique
ANSWER: d			
logical, database, graphics	blication software that includes a and date and time calculations.  b. Desktop Publishing (DTP)  d. Graphics	wide range of built-in fu	unctions for statistical, financial,
72. A global positioning sy areas.	vstem (GPS) device uses a(n)	to help people find the	heir way around town or more remote
a. user software c. personal productivit ANSWER: d	•	elopment environment em	
<ul><li>a. Shawna creating an</li><li>b. Mark entering appo</li><li>c. Callie entering a cu</li><li>d. Brandon recording</li></ul>	e examples of someone using per electronic to-do list for the week intments into his online calendar stomer's order into a restaurant's the number of miles he's run each	kend ordering system	
ANSWER: c			
a. allowing a user to n	•		n <u>EXCEPT</u>
working. She wants to creat while she's speaking. Which as word processing conspreadsheet analysis.	the a set of slides containing a sur th type of personal application so b. database	mmary of her study note	ut a case study in which she's been s that she will project on a screen o create her slides?
ANSWER: d			
a. hardware b. sof	now exceeds other categorating systems	ries of IT expenditures.	

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ANSWER:	b		
a. Reg b. Inst c. Che	of the following is a smart way to reduce the impact gister the software programs you buy so that you rec tall the latest software updates eck the read-me files or online support Web site for of these answers d	eive bug alerts, fixes, and patches.	puting?
Completio	on		
78. Clock	speed of the central processing unit (CPU) is often a	neasured in billions of cycles per sec	ond also known as
ANSWER:	gigahertz		
more trans	pility to increase the processing capability of a compactions in a given period is known as  scalability	uter system so that it can handle mor	e users, more data, or
	the success of grid computing is a(n) that ac central server	as as a grid leader and traffic monitor	<del>.</del>
81. Eight b ANSWER:	bits together form a(n) byte		
with magn	is a direct access storage device that is used to etic material.  hard disk drive (HDD)	store and retrieve data from rapidly	rotating disks coated
83. A univ device (SS ANSWER:		of a commonly used solid state secon	dary storage
_	l mark recognition (OMR) and optical character recoptical data reader	ognition (OCR) are the two categories	es of a(n)
	is the simultaneous execution of the same task on m Parallel computing parallel computing	ultiple processors to obtain results fa	aster.
to receiver	is a technology that employs a microchip with an arcs.  Radio frequency identification (RFID)  RFID	tenna to broadcast its unique identifi	ier and location
	radio frequency identification		

87. If you would like a portable computer that has a roughly 13-inch screen, keyboard, and a pointing device, choose a

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computer.  ANSWER: laptop		
88. A(n) is a climate-and-access-codelivers an organization's data and inform <i>ANSWER</i> : data center		at houses the computer hardware that
89 input devices, such as Nintendo popular in the gaming industry.  ANSWER: Motion-sensing motion-sensing	o's Wii remote and PlayStation's Move ga	ame controllers, have become very
90. One common use of a is in e object they're designing.  ANSWER: 3D printer	ngineering design, when designers need	to make a prototype, or model, of the
91. For most companies, the spheres of in <i>ANSWER</i> : personal	fluence are, workgroup, and enter	prise.
92. A(n) is a defect in a computer part and a software bug bug	program that keeps it from performing as	its users expect it to perform.
93 programming language in ANSWER: C	s the precursor to languages such as C++	-, C#, and Java.
94. A(n) is a set of programming ir of another software program.  ANSWER: application programming interests.		e program to access and use the services
95. Being able to develop software withou <i>ANSWER</i> : hardware independence	nt concern for the specific underlying har	dware is referred to as
96 works by swapping programs of ANSWER: Virtual memory	r parts of programs between memory and	d one or more disk drives.
97 software addresses the needs the ANSWER: Off-the-shelf Off the shelf Package Packaged Mass-produced Mass produced	at are <i>common</i> across businesses, organiz	zations, or individuals.
98. Your business manager wants to be at typically known as	ole to integrate multiple business applicat	ions. The integration software is

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ANSWER:	Middleware		
software.		d processor, spreadsheet program, datale software programs is known as a(n)_	base program, and graphic presentations
100 ANSWER:	is a set of rules associated with Syntax	a programming language.	
	ork with when they boot their	rs to run both Windows and Mac O computers. This is called dual	<u> </u>
	nizations that run hundreds or every thy they're looking for low-cost, r	en thousands of servers in a server farm enewable energy sources.	n are naturally concerned about,
ANSWER:	power usage power performance per watt		
contamina	thical imperative that "care must ting the environment" is associate green computing	be taken when recycling or destroying ed with	electronic devices to avoid
software b	recently purchased the Microsoft ut rather a single-user license	Office Suite for her own use on her lap	otop. She has not really purchased the
Essay			
•	RAM chips are volatile storage disrupted (as happens in a powe	n random access memory (RAM) and a devices, meaning they lose their content r surge, brownout, or electrical noise g meaning that its contents are not lost if	nts if the current is turned off or
106. What	is grid computing? How does it	work?	

ANSWER: 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.

107. Distinguish between systems software and applications software.

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## Chapter 2 - Hardware and Software

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

108. What is the sphere of influence? Identify three spheres of influence.

ANSWER: One useful way of classifying the many potential uses of information systems is to identify the scope of the problems and opportunities that the system is designed to address. This scope is called the sphere of influence. For most companies, the spheres of influence are personal, workgroup, and enterprise. The personal sphere of influence concerns the needs of individual users. The workgroup sphere of influence addresses the needs of two or more people who work together to achieve a common goal. The enterprise sphere of influence supports a firm in its interaction with customers, suppliers, shareholders, competitors, special-interest groups, the financial community, and government agencies.

109. Distinguish between multitasking and multithreading.

ANSWER: Multitasking allows more than one program to run concurrently on an operating system. Multithreading allows different threads of a single program to run concurrently. A thread is a set of instructions within an application that is independent of other threads.

110. Discuss three disadvantages of using proprietary software.

ANSWER: 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 new projects. The features and performance of software that has yet to be developed presents potential risk.

111. Discuss the growth in mobile application software.

ANSWER: The number of applications (apps) for smartphones and other mobile devices has exploded in recent years. Besides the valuable mobile apps that come with these devices, hundreds of thousands of applications have been developed by third parties. For example, iPhone users can download and install thousands of apps using Apple's App Store. Over 1 million mobile apps are available at the Google Play site for users of Android handsets. Microsoft and other software companies are also investing in mobile apps for devices that run on their software.