INFORMATION TECHNOLOGY CONCEPTS (391)

- OPEN EVENT -

REGIONAL – 2018

DO NOT WRITE ON TEST BOOKLET

TOTAL POINTS _____ (100 points)

Failure to adhere to any of the following rules will result in disqualification:

- 1. Contestant must hand in this test booklet and all printouts. Failure to do so will result in disqualification.
- 2. No equipment, supplies, or materials other than those specified for this event are allowed in the testing area. No previous BPA tests and/or sample tests or facsimile (handwritten, photocopied, or keyed) are allowed in the testing area.
- 3. Electronic devices will be monitored according to ACT standards.

No more than sixty (60) minutes testing time

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MULTIPLE CHOICE

Identify the choice that best completes the statement or answers the question.

	ou are looking for a port that will work for an audio device. Which of the following is est to work?
	DVI
a b	
	v. VGA
	. VGA I. HDMI
2 Th	a tan of a tan dayun higrarahigal structura of subdirectories is called the
	te top of a top-down hierarchical structure of subdirectories is called the Base directory
	. Root directory
	. Top directory
	. Volume directory
3 Vo	ou do <i>not</i> want to store your data locally on your hard disk. You would rather store it using
	Internet service. What is this kind of storage known as?
	. distributed storage
	o. cloud storage
	. integrated storage
d	l. VoIP
	n) server can find an IP address for a computer when the fully qualified domain
	me is known.
	. DHCP
	. DNS
	. PPP
d	. NetBIOS
	hich of the following is used to keep the motherboard from contacting the case, preventing a
	ort?
	Standoffs
	Headers
	Retention screws
a.	. Case screws
	i IPv6 address is bits long, and consists of blocks of hexadecimal numbers.
	. 128 bits, 8
	. 32 bits, 8
	. 128 bits, 16
d	. 32 bits, 16

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		need a version of USB technology that will support older USB devices, of which you e many, as well as newer ones. What word do you want to see in the specs?
	a.	backward compatible
	b.	integrated
	c.	multifunctional
	d.	Bluetooth-enabled
8.		is the name of a computer and can be used in place of its IP address.
		host name
		NetBIOS name
		workgroup name domain name
	u.	domain name
		d processing software, spreadsheet software, database software, and presentation software examples of what category of computer software?
	a.	System software
	b.	Application software
	c.	Hardware coordination software
	d.	World Wide Web personal use and productivity software
10	boo	computer that starts up and then shuts off at various stages of the boot, but eventually ots normally, is most likely having an issue with the
		electrical system hard drive
		video card
		sound card
11		nen using the nslookup command, what kind of query takes an IP address and returns a main name?
		Forward lookup
		MX lookup
		Reverse lookup
		Address lookup
12		n) is the software that compresses a video stream when a video is stored, and compresses the file when the video is played.
	a.	compression
	b.	codec
	c.	bitmap
	d.	resolution

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 13. Last night, you experienced a power increase that lasted for less than one thousandth of a second. What is the term for this? a. hit b. joule c. spike d. juice 	
 14. Some motherboards require an extra power connector for PCIe devices. How many pins is this connector? a. 4 or 8 pins b. 6 or 12 pins c. 6 or 8 pins d. 4 or 12 pins 	
 15. Which of the following is <i>not</i> a symptom of a virus infection? a. Strange error messages b. Endless pop-ups in a web browser c. Hijacked web searches d. Hard drives making a clicking noise 	
 16. The Internet has its roots in a network that became functional in 1969, linking scientific and academic researchers across the United States. What was the name of that network? a. ARPANET b. NSFnet c. LISTSERV d. MPEG 	
 17. Which of the following allows access to high-speed Internet services through the cable television network? a. cable transceiver b. cable modem c. cable receiver d. cable dialer 	
 18. The most common cause of issues with displays and video equipment is due to a. overheating b. improperly seated cables c. lack of adequate power d. too much power 	
19. Which of the following is <i>not</i> an element of a secure password?	

- a. Eight or more characters in lengthb. Mix of upper / lower case charactersc. Use of symbols

 - d. Consecutive letters or numbers

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d. VGA

 20. Which of the following print languages was created by Adobe and uses commands sent to the printer to create a bitmap image? a. GDI b. PCL c. PostScript d. XPS 	he
 21. Which of the following is a technology that provides high-speed Internet connection using the telephone network? a. DSL b. ISP c. CMOS d. OSP 	
 22 proves that an individual is who they say they are and is accomplished by a variety techniques, including a username, password, personal identification number (PIN), smart card, biometric data. a. Authorization b. Authentication c. Accounting d. Mandatory access lists 	
 23. Which of the following is <i>not</i> a type of digital video container file? a. MP4 b. AVI c. VOB d. PNG 	
 24. What separates the components of a domain name? a. spaces b. apostrophes c. commas d. periods 	
 25. A Mini PCI Express slot uses how many pins on a connector? a. 24 pins b. 48 pins c. 52 pins d. 64 pins 	
26. Select the video connector that uses separate cables for each RGB signal:a. Compositeb. Componentc. HDMI	

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- 27. What is wrong with the following algorithm?
 - 1. Set X to be 1
 - 2. Increment X
 - 3. Print X
 - 4. If X > 0, repeat from 2
 - a. It does not produce a result.
 - b. It is ambiguous.
 - c. It does not halt in a finite amount of time.
 - d. It is not well-ordered.
- 28. Which parallel port standard allows transmission in only one direction?
 - a. ECP
 - b. SPP
 - c. ECP
 - d. EPP
- 29. Which of the following is a program that finds websites and webpages?
 - a. microbrowser
 - b. location utility
 - c. web finder
 - d. search engine
- 30. Loopback plugs can test which of the following components?
 - a. Power supply
 - b. Network ports
 - c. Expansion slots
 - d. RAM sticks
- 31. Which of the following occurs when one consumer sells directly to another consumer, such as in an online auction?
 - a. consumer-to-consumer (C2C) e-commerce
 - b. business-to-consumer (B2C) e-commerce
 - c. consumer-to-business (C2B) e-commerce
 - d. business-to-business (B2B) e-commerce
- 32. Select the answer below that best describes an inverter.
 - a. Changes DC to AC
 - b. Changes AC to DC
 - c. Doubles the incoming power
 - d. Can't be used on a car battery

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d. IO Hub

33.	Which of the following terms means that the people who are conversing on a computer are online at the same time?
	a. automatic
	b. real-world
	c. real time
	d. mainline
34.	Which file system is used by Blu-Ray discs?
	a. Universal Disk Format
	b. Compact Disc File System
	c. FAT32 d. NTFS
	u. NII'S
35.	In a(n) backup, all files that have been modified since the last full backup are copied
	and have the archive bit unset. a. incremental
	b. differential
	c. encompassing
	d. daily
36.	Which of the following is the code of acceptable behaviors users should follow while on the Internet; that is, it is the conduct expected of individuals while online?
	a. netiquette
	b. web politesse
	c. Internet behavior
	d. web civility
37.	Which of the following AMD processor families is <i>not</i> intended for desktop use?
	a. Turion
	b. Phenom
	c. Athlon
	d. FX
38.	A host in a network performs which of the following tasks?
	a. ensures satellite communications are functional
	b. exclusively monitors wireless networks to search for data transmission errors
	c. routes transmissions over a network to guarantee data reaches its intended destination
	d. provides services and connections to other computers on the network
30	A chipset's North Bridge connects to a processor via the
٠,٠	a. Front side bus
	b. South Bridge
	c. PCI Bride

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- 40. Which power state below saves all work to the hard drive, then powers off the system?
 - a. C1 State
 - b. S0 State
 - c. Suspend
 - d. Hibernation
- 41. What is the purpose of an Internet Protocol address (IP address)?
 - a. It specifies whether a computer is using a broadband network or a direct-dial network.
 - b. It differentiates between a server computer and a client computer and contains codes to identify whether the computer can send data or receive data.
 - c. It contains the protocol schema used to identify whether the computer is on a wired or wireless network.
 - d. It uniquely identifies the location of each computer or device connected to the Internet.
- 42. Which of the following is *not* a good reason to flash a motherboard's BIOS?
 - a. Issues with system during the boot sequence
 - b. Motherboard features are no longer working properly
 - c. Computer case has been replaced
 - d. New processor support provided by update
- 43. A DNS server is able to identify which of the following?
 - a. Every computer or device connected to the Internet
 - b. An IP address based on a domain name
 - c. The TLD for a given company
 - d. The browser being used by a mobile device
- 44. Which type of disc is a type of storage media that consists of a flat, round, portable metal disc made of metal, plastic, and lacquer that is written and read by a laser?
 - a. solid-state
 - b. virtual
 - c. cloud
 - d. optical
- 45. Laptop batteries current use what energy storing technology?
 - a. Lithium Ion
 - b. Nickel Cadmium
 - c. Carbon phosphate
 - d. Alkaline

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a. NANDb. RAMc. DRAMd. ROM

46.	Chain of custody ensures that which of the following is <i>true</i> ? Evidence will not be used in court Evidence will be discarded Possession of evidence is tracked Evidence has been improperly secured
47.	Vhat type of connection is not typically included for use with a KVM switch? . Sound . USB . eSATA . VGA
48.	A(n) is a type of peer-to-peer (P2P) network, which is a network managed by each omputer without centralized control. Domain Workhome Groupshare Workgroup
49.	The process by which sector markings are defined on a disk is known as? High-level formatting Low-level formatting Magnetic etching Partitioning
50.	A solid state drive uses which type of memory?



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TOTAL POINTS _____ (100 points)

Graders: Please double check and verify all scores and answer keys!

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25. C

26. B	
27. C	
28. B	
29. D	
30. B	
30. B 31. A	
31. A 32. A	
33. C	
34. A	
35. A	
36. A	
37. A	
38. D	
39. A	
40. A	
41. D	
42. C	
43. B	
44. A	
45. A	
46. C	
47. D	
48. D	
49. B	
50. A	