

CSIS 3720 Midterm

True/False

Indicate whether the statement is true or false.

- ___ 1. A tower case conserves space since it can double as a monitor stand.
- ___ 2. A DVI port transmits a video signal and is also called a DB-15 port.
- ___ 3. Hard drives have three connections for cables: one for reading data, one for writing data, and one for power.
- ___ 4. A system always needs the 4-pin auxiliary power connector, and sometimes needs the P1 connector as well.
- ___ 5. A FlexATX motherboard is larger than an ATX motherboard.
- ___ 6. Sandy Bridge processors house the memory controller and graphics controller.
- ___ 7. Multiple processors can be installed in a single processor housing.
- ___ 8. Today's DIMMs use a 64-bit data path.
- ___ 9. A 32-bit driver can be used in a 64-bit operating system.
- ___ 10. The official standard for USB interfaces is called IEEE 1394.

Multiple Choice

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

- ___ 1. Which of the following is an audio port that connects to an external home theater audio system, providing digital audio output?
 - a. S/PDIF
 - b. FireWire
 - c. Thunderbolt
 - d. eSATA
- ___ 2. Which of the following is most likely to be installed in a PC, is considered primary storage, and has Windows 7 installed on it?
 - a. floppy drive
 - b. tape drive
 - c. hard disk drive
 - d. optical drive
- ___ 3. Which component probably has a dual-voltage selector switch, and has cables that connect to the motherboard and drives?
 - a. HDD
 - b. PSU
 - c. DIMM
 - d. PCIe
- ___ 4. Which is the most common form factor used today for computer cases, power supplies, and motherboards?
 - a. AT
 - b. ATX
 - c. ATC
 - d. ATI

- ____ 16. What is placed between the bottom of the cooler heat sink and the top of the processor that makes an airtight connection between the fan and processor?
- a. fan shield
 - b. metal fins
 - c. high-density oil
 - d. thermal compound
- ____ 17. Along with the processor, what other device is the highest heat producer in the system?
- a. BIOS chip
 - b. video card
 - c. disk controller
 - d. riser card
- ____ 18. Under what circumstance is a liquid cooling system most likely used?
- a. overclocking
 - b. dual-core processing
 - c. multiple hard disks installed
 - d. onboard graphics controller
- ____ 19. Which of the following is true about fans in the computer system?
- a. they are not found in the power supply case
 - b. larger fans tend to run quieter
 - c. they're usually not needed if your room is cool enough
 - d. they always run at a fixed speed
- ____ 20. What does a small triangle embedded on a connector signify?
- a. use caution when using the connector
 - b. the wire nearest the triangle is pin 1
 - c. the pin near the triangle should be matched with a circular pin
 - d. the connector is optional and need not be attached
- ____ 21. What type of software is used to control a computer.
- a. application
 - b. operating system
 - c. interface routine
 - d. ROM routine
- ____ 22. Which Windows utility program lists errors and issues that need attention?
- a. Action Center
 - b. Control Panel
 - c. System Information Windows
 - d. Network and Sharing Center
- ____ 23. Windows 7 and Vista provides a new 3D user interface called the ____ user interface.
- a. Glass
 - b. Aero
 - c. Air
 - d. Shield
- ____ 24. Which of the following storage devices can be divided into partitions that can have one or more volume?
- a. USB
 - b. optical drive
 - c. hard drive
 - d. flash drive
- ____ 25. A ____ is a convenient way to access several folders in different locations from one central location.
- a. directory
 - b. library
 - c. root directory
 - d. setting
- ____ 26. What is the maximum number of characters allowed in a filename path?
- a. 128
 - b. 256
 - c. 64
 - d. 260
- ____ 27. What is another name for several small utility programs that are found in the Control Panel?
- a. downloads
 - b. system processes
 - c. categories
 - d. applets

- ____ 28. A ____ is one or more characters following the last period in a filename, such as .exe, .txt, or .avi.
- a. filename
 - b. file extension
 - c. file version
 - d. file type
- ____ 29. The ____ dialog box in Windows appears each time a user attempts to perform an action that can be done only with administrative privileges.
- a. User Account Confirmation
 - b. User Account Control
 - c. User Access Control
 - d. User Access Confirmation
- ____ 30. Which Intel CPU socket is discontinued?
- a. Socket 478
 - b. LGA1155
 - c. LGA2011
 - d. Socket H
- ____ 31. Which socket type is soldered to the motherboard, along with the CPU?
- a. SPGA
 - b. FCLGA
 - c. BGA
 - d. PGA
- ____ 32. Which of the following is NOT true about Ivy Bridge chipsets compared to earlier products?
- a. use more power
 - b. higher density transistors
 - c. better performance
 - d. released in 2012
- ____ 33. What type of bus does PCI Express use?
- a. serial
 - b. virtual
 - c. parallel
 - d. logical
- ____ 34. If you need to reset the BIOS password on a motherboard and the instructions say to make sure jumper J1 is open, what should you do?
- a. start the computer and enter BIOS setup mode
 - b. open the case and remove the cover from a set of pins marked J1.
 - c. boot Windows and start the BIOS password reset utility; choose option J1
 - d. unplug the computer and install the loopback connector from the port labeled J1
- ____ 35. Which of the following is a setting you can configure from the BIOS setup program?
- a. disable a Windows driver
 - b. set the desktop background
 - c. configure the screen saver timeout
 - d. change the boot sequence
- ____ 36. What has occurred if you see the message “Chassis Intruded! System has halted.” the next time you start your computer?
- a. the disk has failed
 - b. Windows has not been activated
 - c. the case has been opened
 - d. the keyboard has been unplugged
- ____ 37. What must your motherboard have to use BitLocker Encryption in Windows 7 which will ensure that your hard drive cannot be used in another computer?
- a. TPM chip
 - b. CMOS RAM
 - c. BIOS password
 - d. Encrypted USB port
- ____ 38. What is a possible remedy if your system hangs at odd time or during the boot?
- a. install new CMOS RAM
 - b. remove the TPM chip
 - c. flash the BIOS
 - d. format the hard disk

- _____ 39. Which type of processor memory is located on the processor chip (processor die)?
- a. Level 0 cache
 - b. Level 1 cache
 - c. Level 2 cache
 - d. Level 3 cache
- _____ 40. Which type of memory can support quad, triple, and dual channels?
- a. DDR3
 - b. DDR2
 - c. DDR
 - d. RIMM
- _____ 41. Which of the following is true about DIMM technologies?
- a. DDR2 uses 184 pins
 - b. DDR3 is backward compatible with DDR2
 - c. SDRAM runs synchronized with the system clock
 - d. the S in SDRAM stands for static
- _____ 42. Which of the following statements is NOT true when setting up dual channeling?
- a. a pair in a channel must be equally matched in size, speed and features
 - b. if two DIMM slots do not have matching pairs, single-channeling will be used
 - c. each channel runs independently of the other channel
 - d. if you have two pairs installed in two channels, all four DIMMs must match
- _____ 43. A DIMM that holds data and amplifies a signal before the data is written to the module uses which technology?
- a. EDO
 - b. registers
 - c. parity
 - d. CAS
- _____ 44. Which of the following is NOT true about hard disk drives?
- a. the 3.5" size is typically used in desktops
 - b. a solid state drive has no moving parts
 - c. sold state drives are less expensive than magnetic hard drives
 - d. tracks on a hard drive are divided into sectors
- _____ 45. Which SATA standard provides a transfer rate of 3 Gb/sec?
- a. SATA1
 - b. SATA2
 - c. SATA3
 - d. SATA4
- _____ 46. Which of the following is true about SCSI drives?
- a. SCSI ID 7 has a higher priority than SCSI ID 10
 - b. each logical device requires a unique SCSI ID
 - c. one end of the SCSI chain needs a terminator
 - d. SCSI devices are typically found in SOHO servers and desktops
- _____ 47. How is data stored on magnetic tape?
- a. in parallel
 - b. in random access form
 - c. sequentially
 - d. as optical bits
- _____ 48. What does a twist in a 34-pin data cable mean?
- a. it indicates drive A:
 - b. the cable has been damaged
 - c. it should be connected to the primary IDE drive
 - d. it is used for USB floppy

- _____ 49. Which of the following is a basic principle that applies to both internal and external devices?
- a. when connecting a faster device to a slower port, the port adapts to the speed of the device
 - b. if you have multiple devices to install, it's best to install them at the same time
 - c. for most installations, install the device first, then the device driver
 - d. some devices don't require a software component for them to work properly
- _____ 50. What happens when a problem occurs while Windows 7 is installing a device?
- a. a blue screen of death is displayed
 - b. the Action Center is launched
 - c. Event Viewer runs and an event is displayed
 - d. Device Manager is loaded
- _____ 51. Which of the following is true about the USB standard and devices?
- a. up to 64 USB devices can be daisy chained together
 - b. USB uses parallel data transmissions
 - c. a USB cable has four wires, two for power and two for communication
 - d. USB devices must supply their own power
- _____ 52. Which of the following is true about the FireWire standard and devices?
- a. data is transferred on a parallel bus
 - b. 1394b allows up to 16 daisy-chained devices
 - c. FireWire 800 uses a 4-pin connector
 - d. FireWire devices are hot-swappable
- _____ 53. Which of the following is true about installing a new device?
- a. a mouse may not require an additional device driver installation
 - b. Vista drivers never work with Windows 7
 - c. 32-bit drivers can be installed in a 64-bit OS
 - d. 64-bit drivers can be installed in a 32-bit OS
- _____ 54. What should you install in a server room that will save space by allowing you to control multiple servers with a single mouse, keyboard, and monitor?
- a. a MIDI connector
 - b. a digitizer
 - c. biometric device
 - d. a KVM switch
- _____ 55. Which type of expansion slot uses a retention mechanism to help stabilize a heavy card?
- a. ISA
 - b. PCI
 - c. AGP
 - d. MGA
- _____ 56. Which of the following might be the cause of a black screen right after you install a new video card?
- a. no video card is detected
 - b. the onboard video is not disabled in BIOS
 - c. you installed the video card in the wrong slot
 - d. the video card has insufficient RAM
- _____ 57. What do you need to do for Device Manager to display nonpresent devices?
- a. in Device Manager, click View, then click Nonpresent devices
 - b. in Device Manager, click Advanced, then click All Devices
 - c. create and set an environment variable
 - d. reboot the system in Safe Mode with Networking

Name: _____

ID: A

- _____ 58. Which of the following is a requirement for supporting the Aero user interface?
- a. at least 128 KB video memory
 - b. DirectX 9 or higher
 - c. an HDMI video port
 - d. Windows XP with SP3
- _____ 59. What is the purpose of the LightScribe technology?
- a. labels can be burned on the top of a disc
 - b. it increases read performance by four times
 - c. reliability of CD-R is substantially increased
 - d. it allows the use of LEDs instead of lasers in the CD/DVD drive
- _____ 60. Which type of removable storage media can provide up to 2 TB of storage?
- a. SD
 - b. SDHC
 - c. SDXC
 - d. CFII