### COMPUTER PROBLEM SOLVING

### Overview

This event provides recognition for FBLA members who have a broad base of knowledge and competency in core hardware and operating system technologies including installation, configuration, diagnostics, preventative maintenance, and basic networking.

This is an individual online test.

# **Competencies and Task Lists**

http://www.fbla-pbl.org/competitive-event/computer-problem-solving/

### **Website Resources**

- A+ Essentials Hardware Practice Questions
   http://www.simulationexams.com/SampleQuestions/aplus-questions.htm
- How PCs Work http://computer.howstuffworks.com/pc.htm
- How Operating Systems Work
   http://computer.howstuffworks.com/operating-system.htm

# COMPUTER PROBLEM SOLVING SAMPLE QUESTIONS

- 1) What signals the processor to temporarily stop a running program to allow a handler to run instead?
  - A) IPv6
  - B) DMA
  - C) X64
  - D) IRQ

**Competency:** Personal Computer Components

- 2) \_\_\_\_ is a minimal operating system used to prepare a computer for Windows installation, to copy disk images from a network file server, and to initiate Windows Setup.
  - A) Linux
  - B) Windows PE
  - C) Solaris
  - D) DOS

**Competency:** Personal Computer Components

3)	is a high-speed serial computer expansion bus standard designed to replace the older PCI, PCI-X, and AGP bus standards.  A) IEEE  B) VGA  C) PCIe  D) HDMI
	Competency: Personal Computer Components
4)	'Missing OS' could mean which of the following?  A) MBR is corrupted  B) DBR is corrupted  C) HDD has crashed  D) The system partition is corrupted  Competency: Personal Computer Components
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5)	Which of the following key needs to be pressed while interrupting the OS loading process for the purpose of troubleshooting in Windows?  A) F5. B) F1. C) DEL. D) F8.
	Competency: Personal Computer Components
6)	A processor for laptops is typically smaller, but more importantly, in order to run cooler, it uses less than its desktop counterpart.  A) memory B) electricity C) copper D) silicon
	Competency: Laptop and Portable Devices
7)	As LCDs do <b>not</b> produce light themselves, they need to produce a visible image which is usually provided by a:  A) radio-luminescent panel B) backlight C) cathode ray tube D) fluoride glow rod
	Competency: Laptop and Portable Devices

What key combination in Windows brings up a menu where you can change your password? A) Press CTRL+ALT+P and then click Change Password B) Press SHIFT+ALT+DELETE and then click Change Password C) Press CTRL+ALT+DELETE and then click Change Password D) Press SHIFT+ALT+P and then click Change Password Competency: Laptop and Portable Devices Typically, printer memory is most relevant to a \_\_\_\_\_ printer because they hold the entire image of each page in memory before printing. A) dot-matrix B) inkjet C) thermal D) laser Competency: Printers and Scanner 10) Some printers require \_\_\_\_\_ to properly align the print device to the paper. A) firmware updates B) calibration C) new ink D) cleaning Competency: Printers and Scanners 11) A customer who just bought a computer from you yesterday calls frantically. He tells you the computer says he performed an illegal operation. What do you tell him? A) Bring the computer in for repair B) Tell him he's got a virus C) Choose OK and restart the program D) Explain that he told the CPU to do something that the CPU can't do. Tell him not to do it again. Competency: Printers and Scanners The OS X operating system is based on: 12) A) Windows B) FreeBSD C) Linux D) FreeDOS **Competency:** Operating Systems

- 13) "Hot Docking" means that:
  - A) a hot boot must be done before a device is removed\installed
  - B) power must be off to remove\install a device
  - C) a warm boot must be done before a device is removed\installed
  - D) power can be on to remove\install a device

Competency: Operating Systems

- 14) The Windows operating system holds many configuration settings in the:
  - A) /etc directory
  - B) Registry
  - C) /opt directory
  - D) %systemroot% file

Competency: Operating Systems

- 15) To rename file 1.txt to 2.txt in UNIX run the command:
  - A) build 1.txt 2.txt
  - B) rename 1.txt 2.txt
  - C) mv 1.txt 2.txt
  - D) cp 1.txt 2.txt

Competency: Operating Systems

- 16) Which command makes a file read only?
  - A) Attrib +r "filename"
  - B) Read\_only +r "filename"
  - C) Readonly /y "filename"
  - D) Attrib /r "filename"

Competency: Operating Systems

- 17) What is the data rate of a USB port?
  - A) 12 Mbps
  - B) 16 Mbps
  - C) 100 Mbps
  - D) 120 Mbps

Competency: Operating Systems

18)	What is the application used by chat rooms?  A) PPP  B) SNMP C) SMTP D) IRC
	Competency: Networks
19)	NTFS file systems limit the length of the file names to how many characters?  A) 8  B) 512  C) No limit  D) 255
	Competency: Networks
20)	The system of pathways that is used for communication in a computer system is referred to as which of the following terms?  A) Memory B) Traces C) Cache memory D) Bus
	Competency: Networks
21)	If one segment goes down on a network, the remaining segments past that point also go down.  A) FDDI  B) Fiber ring C) Star D) Bus
	Competency: Networks
22)	One option to consider enabling when moving to Ethernet is jumbo frames.  A) Gigabit B) 10mb C) 100mb D) 16mb
	Competency: Networks

23)	TFTP uses the protocol A) IPX B) UDP C) SPX D) TCP
	Competency: Networks
24)	A(n) is an observable occurrence in an information system that actually happened at some point in time.  A) occurrence B) event C) log entry D) incident
	Competency: Security
25)	is a type of virus which can replicate itself.  A) Ransomware  B) Spam  C) Worm  D) Phishing  Competency: Security
26)	Which command can be used to encrypt and decrypt large numbers of files and folders?  A) Decrypt B) Encrypt C) Cipher D) Secure  Competency: Security
27)	Which component is NOT part of the Windows Security Center?  A) Windows Firewall  B) Computer Management  C) Malware protection  D) Automatic Updates
	Competency: Security

28)	The first hard disk in your computer is having one primary partition and one Extended partition. The extended partition is divided into two logical drives D and E. When you install a second hard drive, you create a primary and extended partition. You create one logical drive only and format it. What would be the drive letter assigned to the first logical drive on the extended partition of first hard disk?  A) G B) F C) D D) E  Competency: Safety and Environmental Issues
29)	What is the command syntax for assigning "Hidden" attribute to file c:\myfile?  A) ATTRIB +R C:\MYFILE  B) ATTRIB H C:\MYFILE  C) ATTRIB +H C:\MYFILE  D) ATTRIB H C:\MYFILE
	Competency: Safety and Environmental Issues
30)	Burns are the most commonrelated injury.  A) aeronautical  B) medical  C) electrical shock  D) vehicle
	Competency: Safety and Environmental Issues