

### Overview

This event provides recognition for FBLA members who understand the basic principles involved in computer technology.

***This event is only for grades 9 and 10.***

### Competencies

The topics listed below are prioritized, listing the most important content areas of the tests.

- Basic computer principles
- Terminology
- Computer application concepts
- Programming concepts and procedures
- Computer equipment

### Procedures/Tips

- Review the Competitive Events Tips in the front of the book.

### Web Site Resources

- <http://www.thinkquest.org/>
- [http://www.library.northwestern.edu/reference/tutorials/internet\\_tutorial/](http://www.library.northwestern.edu/reference/tutorials/internet_tutorial/)
- <http://www.sitemonster.net/>

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## Introduction to Technology Concepts Sample Questions

1. The first thing you can do to increase the available conventional memory is
  - a. rearrange the loading order of the drivers.
  - b. add DOS=HIGH to the CONFIG.SYS.
  - c. remove DOS.
  - d. load all device drivers into UMBS.
2. Which type of signal degrades the most over longer distances?
  - a. analog
  - b. serial
  - c. parallel
  - d. digital
3. What devices transfer packets across multiple networks and use tables to store network addresses to determine the best destination?
  - a. brouters
  - b. routers
  - c. gateways
  - d. bridges
4. Before you install a new device in a functioning computer, you should
  - a. determine the computer's available resources.
  - b. disassemble the computer.
  - c. install DOS.
  - d. install MSD.
5. What was the first 32-bit preemptive multitasking system?
  - a. Windows 3
  - b. Windows 2
  - c. Windows 95
  - d. Windows 1
6. What tool is used to check a machine for hard drive errors?
  - a. System Monitor
  - b. Disk Cleanup
  - c. SCANDISK
  - d. Disk Fragmenter
7. What is the disadvantage of FAT32?
  - a. It's not compatible with older versions of DOS or with Windows 3.x and Windows 95 operating systems.
  - b. You don't have to create multiple partitions.
  - c. It is compatible with all versions of DOS and other operating systems.
  - d. It supports drives up to 2 terabytes.
8. Transmission Control Protocol/Internet Protocol (TCP/IP) is a collection of protocols that help manage Internet communication. Each computer running TCP/IP must have a unique IP address assigned to it. Which of the following statements best describes an IP address?
  - a. An IP address is a set of four numbers, each of which must be from 0 to 255. These numbers can be automatically provided or assigned by a system administrator.
  - b. IP addresses are composed of four numbers, each of which is between 1 and 256. These numbers can be automatically provided or assigned by a system administrator.
  - c. An IP address is a set of three numbers, each of which must be from 0 to 255. An IP address is a unique name that identifies the computer within a network. This name can be automatically provided or assigned by a system administrator.
  - d. An IP address is no more than your dial-up telephone number.

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9. In order to delete and/or replace system files, which command must you use to remove the hidden, system, and read-only attributes on the file before you replace the file?
    - a. DELETE
    - b. ATTRIB
    - c. UNDELETE
    - d. ERASE
  10. Which of the following is true of master/slave hard drive configurations?
    - a. Do not mix ATA and IDE drives on a single controller.
    - b. The primary controller must contain drives that are technologically similar to or newer than drives on the secondary controller.
    - c. Do not install drives on the secondary controller without a primary slave present.
    - d. Do not configure a hard drive to be CD-ROM drive's slave.
  11. A macro is a:
    - a. sequence of keystrokes and instructions that a user records and saves
    - b. a series of commands that allow the user to display a larger version of a document
    - c. document that contains the formatting necessary for a specific document type
    - d. collection of drawings, diagrams, and photographs that can be inserted into a document
  12. A customer is complaining that the power in the office sometimes surges, sometimes causes blackouts, and has EMI. What single device can you recommend to help the most in this situation?
    - a. a UPS
    - b. a suppressor
    - c. a backup battery
    - d. a noise filter
  13. Which of the following is not a part of the graphical phase of Windows 2000 Setup?
    - a. partitioning the hard drive
    - b. networking setting/installing components
    - c. date and time settings
    - d. regional setting
  14. Which Windows error is caused by an application being "greedy" and taking memory away from other programs?
    - a. System Fault
    - b. General Protection Fault
    - c. Memory Protection Fault
    - d. General System Error
  15. A "201" error at system startup means what?
    - a. bad hard disk system
    - b. bad floppy drive
    - c. bad memory
    - d. bad system board
  16. Which LCD matrix screen works in a manner similar to an LCD watch?
    - a. passive matrix
    - b. parallel matrix
    - c. serial matrix
    - d. active matrix
  17. Which driver must be loaded in the CONFIG.SYS to give DOS access to extended memory?
    - a. C:\DOS\EMM386.EXE
    - b. C:\DOS\HIMEM.SYS
    - c. C:\DOS\UPPMEM.SYS
    - d. C:\DOS\EXTMEM.SYS

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18. COM 1 shares an IRQ with which other COM port?
- COM 4
  - COM 1
  - COM 2
  - COM 3
19. A 2GB FAT32 partition will have a cluster size of \_\_\_\_\_ KB?
- 4
  - 32
  - 16
  - 64
20. A previously installed Windows 9x printer needs to be modified for higher resolution. How can this be accomplished?
- Right-click the printer icon, choose Properties, click the Graphics tab, and make your changes.
  - Right-click the printer icon, choose Change Graphics, and make your changes.
  - Uninstall, then reinstall the printer, making your changes during the installation process.
  - Right-click the printer icon, choose Properties, click Change Graphics, click Resolution, and make your changes.
21. The No Operating System Found error message means that the computer's BIOS checked all the drives it knew about and couldn't find any disk with a bootable sector. This could occur because of all of the following reasons **except**
- the boot files have been corrupted.
  - an operating system wasn't installed.
  - the boot sector has been corrupted.
  - there is no problem with the boot sector.
22. Applications can be installed from all of the following devices **except**
- backup drives.
  - internet.
  - CD-ROM.
  - network.
23. Windows 2000 was installed and running on a PC. After making a change in the Registry, the system failed to reboot properly. Which troubleshooting option would work best?
- Reinstall your operating system. Any change made to the Registry is irreversible.
  - Reboot the computer using the F8 option, choose the Last Known Good Configuration option, and complete the boot sequence.
  - Reboot the computer using the F8 option, choose the Debugging Mode option, and complete the boot sequence. The system will debug itself.
  - Reboot the computer using the F8 option, choose Safe Mode, reopen the Registry, and try to undo your change.
24. What file is needed to enable CD-ROM support under MS-DOS?
- MSCDEX.EXE
  - CDEX.EXE
  - CDLRD.EXE
  - CDLDR
25. What is the disadvantage of FAT32?
- It is compatible with all versions of DOS and other operating systems.
  - It's not compatible with older versions of DOS or with Windows 3.x and Windows 95 operating systems.
  - It supports drives up to 2 terabytes.
  - You don't have to create multiple partitions.

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26. Which of the following is the correct way to use the protocol utility IPCONFIG in a Windows 2000 environment?
- Choose Start > Run, type CMD, and press Enter. At the command prompt, type IPCONFIG.
  - Open a browser window and type IPCONFIG in the address line.
  - Choose Start > Run and type IPCONFIG
  - IPCONFIG does not work with Windows 2000.
27. Which of the following questions cannot be answered through file access auditing?
- Who is trying to read a file?
  - Who is trying to audit a file?
  - Who is trying to modify a file?
  - Who is trying to change file permissions?
28. \_\_\_\_\_ uses a thin baseband coaxial cable, bus topology, transmits at 10Mbps, with a distance up to 185 meters.
- Token Ring
  - Ethernet 10BaseT
  - Ethernet 10Base2
  - Ethernet 10Base5
29. Which access method asks the other workstations for permission to transmit before transmitting?
- token passing
  - CSMA/CD
  - CSMA/CA
  - demand priority
30. Which connectivity device transmits packets the fastest?
- brouter
  - bridge
  - gateway
  - router

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**Introduction to Business Communication Answer Key**

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|-------|-------|-------|
| 1) A  | 11) A | 21) B |
| 2) A  | 12) D | 22) B |
| 3) B  | 13) C | 23) A |
| 4) A  | 14) D | 24) B |
| 5) A  | 15) A | 25) A |
| 6) A  | 16) B | 26) B |
| 7) B  | 17) B | 27) A |
| 8) A  | 18) B | 28) C |
| 9) B  | 19) B | 29) B |
| 10) B | 20) A | 30) B |

**Introduction to Parliamentary Procedure Answer Key**

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|-------|-------|-------|
| 1) C  | 11) B | 21) A |
| 2) B  | 12) C | 22) B |
| 3) A  | 13) C | 23) B |
| 4) B  | 14) C | 24) B |
| 5) A  | 15) B | 25) B |
| 6) C  | 16) C | 26) A |
| 7) A  | 17) B | 27) A |
| 8) B  | 18) A | 28) B |
| 9) C  | 19) B | 29) A |
| 10) C | 20) A | 30) A |

**Introduction to Technology Concepts Answer Key**

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|-------|-------|-------|
| 1) B  | 11) A | 21) D |
| 2) D  | 12) A | 22) A |
| 3) B  | 13) A | 23) B |
| 4) A  | 14) B | 24) A |
| 5) C  | 15) C | 25) B |
| 6) C  | 16) D | 26) A |
| 7) A  | 17) B | 27) B |
| 8) A  | 18) D | 28) C |
| 9) D  | 19) A | 29) C |
| 10) D | 20) A | 30) B |

**Management Decision Making Answer Key**

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|-------|-------|-------|
| 1) B  | 11) C | 21) C |
| 2) D  | 12) D | 22) D |
| 3) A  | 13) A | 23) A |
| 4) A  | 14) C | 24) A |
| 5) C  | 15) C | 25) A |
| 6) D  | 16) A | 26) B |
| 7) B  | 17) A | 27) C |
| 8) A  | 18) D | 28) B |
| 9) D  | 19) A | 29) D |
| 10) A | 20) A | 30) A |

**Management Information Systems Answer Key**

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|-------|-------|-------|
| 1) B  | 11) A | 21) C |
| 2) A  | 12) D | 22) C |
| 3) B  | 13) D | 23) B |
| 4) D  | 14) B | 24) A |
| 5) A  | 15) A | 25) B |
| 6) D  | 16) D | 26) B |
| 7) C  | 17) B | 27) A |
| 8) A  | 18) A | 28) B |
| 9) D  | 19) B | 29) A |
| 10) C | 20) B | 30) B |