

Chapter 1

1. Why were TCP/IP protocols developed?

- a. To insure that error correction of each packet takes place.
- * b. To allow cooperating computers to share resources across a network.
- c. To allocate resources that are needed for operating a computer on a LAN.
- d. To determine the "best path" decision making when forwarding packets of data.

2. Which of the following are functions of a web browser without the addition of plug-ins? (Choose three.)

- a. updates IRQ's
- * b. receives information
- * c. requests information
- d. contacts web servers
- * e. displays flash animation
- f. displays Quicktime movies

3. What is the numeric base of hexadecimal numbers?

- a. Base 2
- b. Base 8
- c. Base 10
- * d. Base 16
- e. Base 32

4. In an 8 bit binary number, what is the total number of combinations of the eight bits?

- a. 128
- b. 254
- c. 255
- * d. 256
- e. 512
- f. 1024

5. Convert the decimal number 231 into its binary equivalent. Select the correct answer from the list below.

- a. 11110010
- b. 11011011
- c. 11110110
- * d. 11100111
- e. 11100101
- f. 11101110

6. Convert the hexadecimal number CD into its base 10 equivalent. Select the correct answer from the list below.

- a. 197
- b. 199
- c. 201
- d. 203
- * e. 205
- f. 207

7. Convert the hexadecimal number 19 into its base 10 equivalent. Select the correct answer from the list below.

- a. 19
- b. 91
- c. 52

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- * d.25
- e.36
- f.63

8. Which of the following are popular web browsers? (Choose two.)

- a.Acrobat
- * b.Internet Explorer
- c.Macromedia Flash
- * d.Netscape Navigator
- d.Quicktime
- e.World wide web

9. Which of the following are valid hexadecimal numbers? (Choose three.)

- * a.DEF3
- b.1G45
- * c.1F35
- d.DH3F
- * e.453
- f.X35F

10. What are the requirements for an Internet connection? (Choose three.)

- a.remote host
- * b.physical connection
- * c.logical connection
- d.firewall
- * e.application

11. Which of the following interprets the data and displays the information in an understandable form for the user to see?

- * a.application
- b.protocol stack
- c.remote devices
- d.logical connection
- e.physical connection

12. Which of the following are considered to be "always on" services? (Choose two.)

- * a.DSL
- b.ISDN
- c.56kbps
- * d.cable modem

13. Which of the following will test the internal loopback of a node?

- a.ping 10.10.10.1
- b.ping 192.168.1.1
- * c.ping 127.0.0.1
- d.ping 223.223.223.223
- e.ping 255.255.255.255

14. If you perform a Boolean AND on the IP address 172.16.20.23 using the subnet mask of 255.255.248.0, which of the following is the subnetwork address?

- a.172.16.0.0
- * b.172.16.16.0
- c.172.16.20.0
- d.172.16.20.16
- e.172.16.24.0

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15. Which specialized equipment is used to make a physical connection from a PC to a network? (Choose two.)

- a. router
- * b. modem
- c. CD ROM
- * d. network interface card

16. When purchasing a NIC for a computer, which of the following factors need to be considered? (Choose three.)

- * a. protocols
- * b. system bus
- c. brand of PC
- d. web browser
- * e. type of media used on the network

17. Which of the following describes a network interface card?

- a. large circuit board that contains sockets for expansion cards
- b. interface card capable of transferring more than one bit simultaneously and is used to connect external devices
- * c. interface card inserted into a computer so that the computer can be connected to a network
- d. interface card that can be used for parallel communication in which only 1 bit is transmitted at a time

18. Which statements best describe a physical connection? (Choose two.)

- a. internet standard is TCP/IP
- * b. could utilize modem or NIC
- c. interprets data and displays information
- * d. used to transfer data between PC and local network

19. Which device connects a computer with a telephone line by providing modulation and demodulation of incoming and outgoing data?

- a. NIC
- b. CSU/DSU
- c. router
- * d. modem
- e. telco switch

20. Which phrases describe a byte? (Choose two.)

- a. a single binary digit
- * b. a grouping of eight binary digits
- c. +5 volts of electricity
- * d. a single addressable storage location
- e. the value range from 0 to 127

21. Convert the Base 10 number 116 into its eight bit binary equivalent. Choose the correct answer from the following list:

- a. 01111010
- b. 01110010
- * c. 01110100
- d. 01110110
- e. 01110111
- f. 01010110