Review questions

1. Which type of network cable transmits digital signals in the form of pulses of light?
   A. Coaxial
   B. Unshielded Twisted Pair (UTP)
   C. Shield Twisted Pair (STP)
   D. Fiber Optic

2. Which occurs because alternating electrical current flowing through a wire creates an electromagnetic field around the wire?
   A. Attenuation
   B. Crosstalk
   C. Interference
   D. Shorts

3. Which categories of UTP cabling can be used in Gigabit Ethernet networks? (Select all that apply.)
   A. CAT 1
   B. CAT 2
   C. CAT 3
   D. CAT 4
   E. CAT 5
   F. CAT 5e
   G. CAT 6
   H. CAT 6e
   I. CAT 7

4. The diameter of fiber optic cable is expressed in which measurement?
   A. Centimeters
   B. Microns
   C. Millimeters
   D. Ohms

5. ___________ fiber optic cable is used mostly for short distances (up to 500 m).

   \textit{Multi-mode}
6 Which of the following Radio Guide cable categories is used for Ethernet networking? (Select all that apply.)
   A RG-6
   B RG-8
   C RG-9
   D RG-11
   E RG-58
   F RG-59

7 Which of the following fiber optic cable connectors is an example of a ST (straight tip) connector?
   A
   B
   C
8 Twisted pair network cable uses which RJ connector?
A  RJ-11
B  RJ-14
C  RJ-25
D  RJ-45

9 An RJ-11 connector is which type?
A  6P2C
B  6P4C
C  6P6C
D  8P8C

10 What is the pinout difference between the T568A and T568B standards? (Select all that apply.)
A  The wire color attached to pin 1
B  The wire color attached to pin 2
C  The wire color attached to pin 3
D  The wire color attached to pin 4
E  The wire color attached to pin 5
F  The wire color attached to pin 6
G  The wire color attached to pin 7
H  The wire color attached to pin 8

11 The standard BNC barrel connector is considered a how-many-pin connector?
A  1
B  2
C  3
D  4
12 Impedance is measured in which of the following?

A Nanoseconds

B Ohms

C Millimeters

D Volts

13 Cables that run in _______________ must meet applicable fire protection and environmental requirements.

plenums

14 The device on a NIC card that converts the data that it receives from the system into a signal that’s appropriate to the network is called a _______________.

A Port

B PROM chip

C Receiver

D Transceiver

15 True or false? On the majority of today’s laptop computers, the network adapters are PC Cards.

False. Network adapters are standard equipment on notebook computers now.

16 The built-in identifying address coded into the NIC by the manufacturers is called which of the following?

A IPv4 address

B IPv6 address

C MAC address

D Port address

17 A 16-byte address displayed in hexadecimal is called which of the following?

A IPv4 address

B IPv6 address

C MAC address

D Port address

18 _______________ servers match host names to IP addresses.

DNS

19 A _______________ name is a 16-character name, with the first 15 characters available for the name and the 16th character reserved to describe a particular service or functionality.

NetBIOS
20 True or false? The purpose of a modem is to convert digital data signals from the computer into analog signals for transmission over the phone line.

*True. It also converts analog signals received from the phone line back into digital signals for the computer.*

21 Modems use which RJ connector?

A  RJ-11  
B  RJ-14  
C  RJ-25  
D  RJ-45  

22 True or false? PCI-based modems are less expensive to purchase because the CPU must handle all the processing, making them cheaper to produce.

*False. The CPU handles all the processing for an AMR, CNR, or ACR modem, sound card, or network card.*

23 True or false? In Windows Vista, you use the software that comes with your modem to create dial-up connections to remote servers.

*False. Once you’ve installed a modem on your computer, you establish a connection to an ISP’s dial-up server or a company’s remote access server by using Windows Vista’s “Set up a connection or network” wizard.*