

Chapter 10: Wide Area Networking and Cloud Computing Review Questions

Book Title: Guide to Networking Essentials

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Chapter Review

Review Questions

1. In which of the following areas does a WAN differ from an internetwork?
(Choose all that apply.)
 - ☒ a. WANs use service providers for the network connection.
 - ☐ b. WANs can't transport Network-layer protocols.
 - ☒ c. WANs use serial communication technologies that can span miles.
 - ☐ d. WANs don't use routers.
2. Which of the following is a device used to make WAN connections? (Choose all that apply.)
 - ☐ a. 10BaseT hub
 - ☒ b. CSU/DSU
 - ☒ c. Router
 - ☐ d. Ethernet repeater
3. Which of the following best describes a digital signal?
 - ☐ a. A signal that varies over time continually and smoothly
 - ☐ b. A signal whose states vary much like a lamp controlled by a dimmer switch
 - ☐ c. A channel service unit
 - ☒ d. A series of binary values
4. For what purpose is a CSU/DSU used?
 - ☐ a. Modulates a digital signal into an analog signal

- ☒ b. Creates a digital connection between a LAN device and the WAN link
- c. Routes packets from the LAN to the WAN
- d. Creates a WAN connection over the public switched telephone network

5. Which of the following is a common WAN connection method? (Choose all that apply.)

- ☒ a. Circuit switched
- b. Packet leased
- c. VPN over POTS
- ☒ d. Packet switched

6. Which of the following is true about ISDN?

- a. It uses a modem to modulate/demodulate the signal.
- ☒ b. Its BRI format consists of two B-channels and one D-channel.
- c. Its PRI format provides bandwidth up to 128 Kbps.
- ☒ d. It uses a terminal adapter to connect to the network.

7. Which of the following is a typical situation in which leased lines should be considered? (Choose all that apply.)

- a. Occasional use of the WAN link is needed.
- ☒ b. 24/7 access is required.
- ☒ c. Fast upstream and downstream communications are needed.
- d. You want to pay for only the bandwidth you use.

8. Which of the following combines several communication streams into a single faster communication stream?

- ☒ a. Multiplexing
- b. Demultiplexing
- c. CSU
- d. DSU

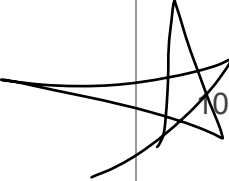
9. Which physical topology does SONET readily support? (Choose all that apply.)

☒ a. Point-to-point

☒ b. Star

☒ c. Ring

☐ d. Bus

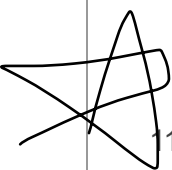
 10. Which of the following technologies uses packet switching? (Choose all that apply.)

☐ a. ISDN

☒ b. Frame relay

☒ c. T1

☒ d. X.25

 11. Which of the following technologies provides permanent virtual circuits? (Choose all that apply.)

☐ a. PSTN

☒ b. Frame relay

☒ c. X.25

☐ d. ISDN

12. Which technology uses 53-byte cells?

☐ a. POTS

☒ b. ATM

☐ c. Frame relay

☐ d. X.25

13. To maintain security, WAN connections over the Internet should use which of the following?

☐ a. BRI

☐ b. LANE

c. OC-3

☒ d. VPN

14. What type of device is required to connect to a dedicated digital communication line?

a. Modem

b. NIC

☒ c. CSU/DSU

d. LANE

15. Which technology runs at 1 Gbps at distances up to 70 km and has largely replaced frame relay and ATM?

a. Cable modem

b. MPLS

c. Ethernet WAN

d. LANE

16. Which term best describes the place in a WAN connection where the customer's responsibility ends and the provider's responsibility begins?

a. Data circuit-terminating equipment

☒ b. Demarcation point

c. CPE

d. Central office

17. Which of the following places data on the local loop?

☒ a. DCE

b. DTE

c. Router

d. CPE

18. Which of the following is the equipment at the customer site that's the responsibility of the customer?

- a. DTE
- b. DCE
- c. Demarcation point

☒ d. CPE

19. Which of the following is a VPN protocol supported by Windows remote access? (Choose all that apply.)

☒ a. PPTP

☒ b. L2TP

c. HTTP

☒ d. SSTP

20. Which of the following is a component of the PPP protocol? (Choose all that apply.)

☒ a. Link Control Protocol

☒ b. NCP

c. VPN

d. RDP

21. Which of the following can best be described as developing applications by using a service provider's development tools and infrastructure?

a. Hosted applications

b. Hosted networking

☒ c. Hosted platforms

d. Hosted infrastructure

22. Which wireless WAN technology has a standard for fixed and mobile devices?

☒ a. WiMAX

b. LTE

c. Satellite

d. LTE-Advanced

23. Which wireless WAN technology might not be suitable for voice applications because of latency?

a. WiMAX

b. LTE

c. Satellite

d. LTE-Advanced

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