

1. Which statement is true about the differences between a WAN and a LAN?

A WAN often relies on the services of carriers, such as telephone or cable companies, but a LAN does not.

2. A U.S. company requires a WAN connection used only to transfer sales data from individual stores to the home office. All transfers will occur after business hours. The required bandwidth for this connection is estimated to be less than 38 kbps. Which type of connection requires the least investment for this company?

analog dialup

3. What are two advantages of an analog PSTN WAN connection? (Choose two.)

low cost

availability

4. Which WAN technology uses a fixed payload of 48 bytes and is transported across both switched and permanent virtual circuits?

ATM

5. Which three WAN devices can be found in the cloud? (Choose three.)

ATM switches

core routers

Frame Relay switches

6. Which term describes a device that will put data on the local loop?

DCE

7. What is an advantage of packet-switched technology over circuit-switched technology?

Packet-switched networks can efficiently use multiple routes inside a service provider network.

8. Which statement is true about data connectivity between a customer and a service provider?

The segment between the demarcation point and the central office is known as the “last mile.”

9. A company needs a WAN connection that is capable of transferring voice, video, and data at a minimum data rate of 155 Mbps. Which WAN connection is the best choice?

ATM

10. Which statement is true of the functionality of the layers in the hierarchical network model?

The distribution layer aggregates WAN connections at the edge of the campus.

11. Why is the call setup time of a circuit-switched WAN implementation considered a drawback?

Data cannot be transferred until a circuit has been established.

12. For digital lines, which device is used to establish the communications link between the customer equipment and the local loop?

CSU/DSU

13. Which packet-switched WAN technology offers high-bandwidth connectivity capable of managing data, voice, and video all on the same infrastructure?

metro Ethernet

14. Which networking device is typically used to concentrate the dial-in and dial-out traffic of multiple users to and from a network?

access server

15. Which two devices are commonly used as data communications equipment? (Choose two.)

modem

CSU/DSU

16. Which two features are identified with Frame Relay connections? (Choose two.)

DLCI

PVC

17. Which statement about WAN protocols is correct?

Most WAN protocols use HDLC or a variant of HDLC as a framing mechanism.

18. Which switching type will allow the communication devices in the provider network to be shared and only allocated to an individual subscriber during data transfer?

packet-switched

19. What can cause a reduction in available bandwidth on a cable broadband connection?

number of subscribers

20. What three terms are associated with ISDN PRI? (Choose three.)

circuit switching

data bearer channels

time-division multiplexing

21. At which two layers of the OSI model does a WAN operate? (Choose two.)

Physical Layer

Data Link Layer

22. What type of connectivity is established when VPNs are used from the remote site to the private network?

tunnels