

NETWORK CONCEPTS

1. A high-speed, packet-switching technique that uses short fixed-length packets called cells, and can transmit voice, video, and data over a variable-speed LAN and WAN connections, is best described by which one of the following?
 - a. ISDN
 - b. Frame Relay
 - c. FDDI
 - d. ATM

Competency: General Network Terminology

Task: Identify types of networks (e.g., LAN, WAN, MAN) and their features and applications.

2. At AAA Tool and Die, Larry supports a Windows 2000 Professional client using dynamic update for name resolution. He can't ping the client using its hostname and would like to force DNS registration from a command prompt. What is the command for this?
 - a. `dnsconfig /register`
 - b. `ipconfig /registerdns`
 - c. `ipconfig /register`
 - d. `ipconfig /registration`

Competency: General Network Terminology

Task: Identify tools, diagnostic procedures, and troubleshooting techniques for networks.

3. What operating system was a joint venture between IBM and Microsoft and was eventually released as an IBM operating system?
 - a. OSX
 - b. Solaris
 - c. Windows NT
 - d. OS/2

Competency: Network Operating System Concepts

Task: Identify the general characteristics and functions of network operating systems (i.e., window NT, LINUX, UNIX, etc.).

4. What protocol suite has Macintosh primarily used historically?
 - a. SAMBA
 - b. IPX/SPX
 - c. TCP/IP
 - d. Appletalk

Competency: Network Operating System Concepts

Task: Properly setup protocols, clients, and adapters on a network operating system.

5. Which is a specialized gateway for ISDN?
- Terminal Adapter
 - Gateway
 - CSU
 - DSU

Competency: Network Security

Task: Demonstrate understanding of physical and logical security issues and solutions.

6. Which one of the following is considered dedicated?
- Ethernet
 - Dialup
 - DSL
 - PSTN

Competency: Equipment for Network Access

Task: Explain different functions of network communications equipment (e.g., modems, DSL/CSU, NIC, bridges, switches, routers, and hubs).

7. What does the V.92 protocol refer to?
- DSL
 - 56kbit/s dial-up
 - 28.8kbit/s dial-up
 - ISDN

Competency: Equipment for Network Access

Task: Explain the uses of current and emerging specialized server hardware, including RAID, blades, SMP, storage devices ultra SCSI, and hot-swappable technologies.

8. In most situations, wireless LANs use a central device, called a(n) _____, to control communications.
- access point
 - concentrator
 - hub
 - switch

Competency: OSI Model Functionality

Task: Describe the network processes that use protocols and map these to the appropriate OSI levels.

9. Which one of the following network types is easiest to add new nodes to?
- Star
 - Mesh
 - Bus
 - Ring

Competency: Network Topologies and Connectivity

Task: Explain network topologies (e.g., star, bus, ring, broadband, and baseband).

10. _____ offers the longest possible segment length.
- a. Shielded twisted-pair cabling
 - b. Fiber-optic cabling
 - c. Unshielded twisted-pair cabling
 - d. Coaxial cable

Competency: Network Topologies and Connectivity

Task: Identify different types of network cabling such as CAT5, Coax, fiber, and select the appropriate type of connectors for each.

Network Concepts Answer Key

1. D
2. B
3. D
4. D
5. A
6. C
7. B
8. A
9. A
10. B

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