

NETWORK DESIGN

1. What is another name for IEEE 802.3?
 - a. Token passing
 - b. Token ring LAN
 - c. Logic link control
 - d. CSMA/CD LAN

Competency: Network Installation - Planning, Configuration, Topology

Task: Demonstrate knowledge of the key functions and systems of the network.

2. Which one of the following terms describes a process of controlling access to wireless media by polling wireless devices in turn to see if the device wants to transmit?
 - a. Virtual Carrier Sensing (VTS)
 - b. Distributed Coordinated Function (DCF)
 - c. Request to Send/Clear to Send (RTS/CTS)
 - d. Point Coordinated Function (PCF)

Competency: Network Installation - Planning, Configuration, Topology

Task: IEEE/Network standards.

3. What TCP/IP utility would you use to verify DNS servers are functioning and are providing correct information?
 - a. Nslookup
 - b. Tracert
 - c. NetStat
 - d. Ping

Competency: Problem Solving/Troubleshooting

Task: Use the appropriate network utility to troubleshoot various connectivity issues.

4. Which one of the following is **not** a method of troubleshooting?
 - a. bottom up
 - b. search and destroy
 - c. top down
 - d. divide and conquer

Competency: Problem Solving/Troubleshooting

Task: Demonstrate knowledge of basic troubleshooting steps.

5. To change permissions of files in Linux via the command line use:
 - a. CH
 - b. Chmod
 - c. Perm
 - d. Setperm

Competency: Network Administrator Functions

Task: Determine procedures for managing network assets (e.g., users, groups, and printers).

6. At which point do individuals and small businesses connect directly to the ISP network to obtain Internet access?
 - a. at an IXP
 - b. at a POP
 - c. at a Metro Ethernet Link
 - d. on the ISP extranet

Competency: Configuration of Internet Resources - Web Service, DMZ, FTP, etc.

Task: Configure Internet access for a network.

7. Which one of the following is an electronic mail protocol?
 - a. X.800
 - b. HTTP
 - c. NNTP
 - d. IMAP

Competency: Configuration of Internet Resources - Web Service, DMZ, FTP, etc.

Task: Establish WWW service, FTP service, SNMP service, and NNTP service.

8. Which communications medium is most susceptible to RFI?
 - a. STP
 - b. UTP
 - c. fiber
 - d. coax
 - e. wireless

Competency: Configuration of Internet resources - Web Service, DMZ, FTP, etc.

Task: Demonstrate knowledge of the principles and operation of wire (e.g., coaxial and fiber optics) and wireless systems.

9. Which type backup process archives all selected files but does **not** set the archive bit?
 - a. full
 - b. copy
 - c. incremental
 - d. differential

Competency: Backup and Disaster Recovery

Task: Compare different options of backing up and securing data and restoring a system and perform system backup.

10. The protocol for Web communications is:

- a. FTP
- b. WWW
- c. HTTP
- d. SMTP

Competency: Configuration Network Resources and Services

Task: Identify the purpose of network services and protocols.

Network Design Answer Key

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

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