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