

**STUDENT ACTIVITY 3.5\_KEY: NETWORKING SERVICES**

MTA Course: 98-366 Networking Fundamentals  
Lesson name: Understanding Protocols and Services  
Topic: Understand networking services.  
File name: NetFund\_SA\_3.5\_Key

**Lesson Objective**

**3.5:** Understand networking services. *This objective may include but is not limited to:* DHCP, IPsec, remote access

**Resources, software, and additional files needed for this lesson**

- None

**Directions to the student**

Select the best answer to the following questions.

**Content**

1. The two basic mechanisms in DHCP are:
  - a. IP address allocation and configuration parameters delivery
  - b. Automatic and manual address allocation
  - c. DHCP protocol and DHCP extensions
  - d. IP address allocation by DHCP and its co-existence with other address configuration management schemes

**Answer: A,** IP address allocation and configuration parameters delivery

2. A relay agent is:
- a. A router using the DHCP protocol
  - b. A DHCP host you can rely on
  - c. A host or router that passes on DHCP messages
  - d. All of the above

**Answer: C,** A host or router that passes on DHCP messages

3. Relay agents were created for:
- a. Saving the need for a DHCP/BOOTP server on each subnet
  - b. BOOTP compatibility
  - c. Interoperation of BOOTP clients with DHCP servers
  - d. None of the above
  - e. All of the above

**Answer: A,** Saving the need for a DHCP/BOOTP server on each subnet

4. BOOTP is a \_\_\_\_\_ configuration protocol.
- a. static
  - b. dynamic
  - c. both dynamic and static
  - d. None of the above

**Answer: B,** dynamic

5. DHCP is a \_\_\_\_\_ configuration protocol.
- a. dynamic
  - b. static
  - c. both dynamic and static
  - d. None of the above

**Answer: C,** both dynamic and static

6. When the DHCP client first starts, it is in the \_\_\_\_\_ state.
- a. selecting
  - b. initializing
  - c. requesting
  - d. None of the above

**Answer: B,** initializing

7. After sending the DHCPDISCOVER message, the client goes to the \_\_\_\_\_ state.
- a. selecting
  - b. initializing
  - c. requesting
  - d. None of the above

**Answer: A,** selecting

8. Remote Access server uses two modes, which are:
- a. Topic and transport
  - b. Tunnel and topic
  - c. Transport and static
  - d. Tunnel and transport

**Answer: D,** Tunnel and transport

9. Common network services include:
- a. E-mail and printing
  - b. DNS and DHCP
  - c. Directory services
  - d. Authentication services
  - e. All of the above

**Answer: E,** All of the above

10. What is the most significant change of DHCP over BOOTP?
- a. The extension mechanism
  - b. Dynamic IP binding and the idea of a lease
  - c. The configuration parameters' delivery mechanism
  - d. Saving one extra letter in the protocol acronym
  - e. None of the above

**Answer: B,** Dynamic IP binding and the idea of a lease