

# CS10001: Computer Literacy Homework Assignment #5

Name: \_\_\_\_\_

**Due Date: December 1, 2008**

<b>Chapter 12: Network Topology and Navigation Devices</b>
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→ **Quiz – Circle the best answer to each of the following (10 points total):**

- All of the following are true about a linear network topology EXCEPT:
  - it is most commonly used in peer-to-peer networks.
  - it is also known as a bus topology.
  - computers are connected on a single cable.
  - it is more expensive than other topologies.
- All computers on a passive topology network can receive signals that are transmitted across the network. To avoid signals from bouncing back on the bus to computers that already received the signal, a(n) \_\_\_\_\_ is used at the end.
  - dumb terminal
  - terminator
  - end cap
  - nonbouncing signal
- An example of a network navigation device is a:
  - token
  - bus
  - router
  - ring
- The most common network topologies include all of the following EXCEPT:
  - bus
  - ring
  - star
  - loop
- The type of transmission device commonly referred to as a smart hub is a(n):
  - gateway
  - switch
  - bridge
  - router
- The most common protocol for star networks is:
  - cable.
  - DSL.
  - modem.
  - Ethernet.

**Chapter 12: Network Topology and Navigation Devices**

→ **Quiz – Circle the best answer to each of the following (10 points total) – cont'd:**

7. When only one computer can communicate at a time, it is important to have:
  - a. the fastest connection on the host computer.
  - b. a collision detection system to avoid lost or damaged data.
  - c. no more than two computers on the network at the same time.
  - d. multiple servers.
  
8. A physical arrangement of computers, peripherals, and media is known as a(n):
  - a. installation diagram.
  - b. roadmap.
  - c. topology.
  - d. server.
  
9. Advantages of a token ring topology include all of the following EXCEPT:
  - a. additional computers do not adversely affect network performance.
  - b. it provides a fair allocation of resources.
  - c. it is an active topology.
  - d. data uses a terminator.
  
10. Data in a ring topology network:
  - a. is received by all tokens on the ring.
  - b. flows in one direction only.
  - c. can skip over broken computers in the network.
  - d. flows in many directions.

**Chapter 13: The Internet and How It Works**

→ **Quiz – Circle the best answer to each of the following (10 points total):**

1. Which of the following statements concerning the Internet is FALSE?
  - a. The Internet consists of individual local area networks.
  - b. The Internet developed out of a U.S. government military project.
  - c. Government entities and large, privately held companies own pieces of the communications infrastructure.
  - d. The U.S. government owns the Internet.
  
2. If you use Notepad to create a Web page, you need:
  - a. to be a programmer.
  - b. knowledge of HTML code.
  - c. a hard copy of the Web page.
  - d. You cannot use Notepad to create a Web page.

**Chapter 13: The Internet and How It Works**

→ **Quiz – Circle the best answer to each of the following (10 points total) – cont’d:**

3. When common \_\_\_\_\_ are followed, networks can communicate even if they have different topologies, transmission media, or operating systems.
  - a. file transmission
  - b. circuit switching methods
  - c. communication protocols
  - d. packet switching methods
  
4. All of the following are true about HTML EXCEPT:
  - a. it uses tags to tell a browser how to display objects.
  - b. it can be created using any text editor.
  - c. it is a programming language such as Java.
  - d. it can be used to create a resume.
  
5. The precursor to the Internet was the \_\_\_\_\_ .
  - a. backbone
  - b. ARPANET
  - c. TCP/IP
  - d. OSI model
  
6. Third-party \_\_\_\_\_ companies are the backbone providers to the Internet and maintain the network access points.
  - a. ISP
  - b. foreign
  - c. telecommunications
  - d. modem
  
7. What does HTML stand for?
  - a. Home Title Making Language
  - b. Hyper-Transfer Master Language
  - c. Hyperlink Master Language
  - d. Hypertext Markup Language
  
8. The actions of the \_\_\_\_\_ caused the explosion of the Internet for all communities.
  - a. ARPA
  - b. CERN
  - c. NSF
  - d. TCP
  
9. To see the HTML code on a Web page, you can:
  - a. select view HTML from the Tools menu.
  - b. select Open from the File menu.
  - c. right click and select View Source.
  - d. You cannot view a Web page's HTML.

**Chapter 13: The Internet and How It Works**

→ **Quiz – Circle the best answer to each of the following (10 points total) – cont’d:**

10. All of the following statements concerning the Internet are true EXCEPT:
- The Internet is actually a network of networks.
  - The Internet follows a set of communication protocols for transferring data.
  - The Internet is the largest network of computers.
  - Computers connected to the Internet can use any protocol to connect to each other.

**The OSI Model**

→ **Quiz – Circle the best answer to each of the following (5 points total):**

- In the OSI model, the \_\_\_\_\_ layer converts the data into signals for transmission over the network.
  - session
  - data link
  - physical
  - application
- The OSI model is divided into \_\_\_\_\_ processes called *layers*.
  - five
  - six
  - seven
  - eight
- In the OSI model, the \_\_\_\_\_ layer handles data encryption and compression.
  - application
  - presentation
  - data link
  - session
- In the OSI model, the \_\_\_\_\_ layer is responsible for assembling the data packets into frames.
  - session
  - transport
  - data link
  - network
- In the OSI model, the \_\_\_\_\_ layer sets up and manages the virtual (not physical) connection between the sending and receiving devices.
  - physical
  - transport
  - session
  - network