Chapter-1

Computer Networking

Section A: Fill in the Blanks

1. A computer network is a collection of interconnected _____ and other devices.
2. The central computer in a network that distributes resources is called a _____.
3. The device that connects your home network to your Internet Service Provider (ISP) is called a _____.
4. In a _____ topology, each node is connected to a central node like a hub or switch.
5. The protocol used to monitor and manage network devices is called _____.
6. A network that connects computers within a metropolitan area is called a _____.
7. The _____ protocol ensures a connection is made between the application and server.
8. The smallest network, which is very personal to a user, is called a _____.
9. In a _____ network, all computers have equal privileges and responsibilities.
10. The _____ protocol is often referred to as the protocol of the Internet.

Section B: True or False

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1. A hub acts as a central distribution point in a network. (True/False)
2. A WAN is smaller than a LAN. (True/False)
3. In a peer-to-peer network, there is a dedicated server. (True/False)
4. The speed of a WAN is faster than a LAN. (True/False)
5. Mesh topology is commonly used for wireless networks. (True/False)
6. TCP ensures a connection is made between the application and server. (True/False)
7. A router allows you to share a single internet connection with multiple devices. (True/False)
8. A PAN has a connectivity range of up to 100 meters. (True/False)
9. In a client/server network, the server manages all the resources. (True/False)
10. HTTP is a network security protocol. (True/False)

Section C: Multiple Choice Questions

1. Which of the following is NOT a component of a network?
   a) Hub
   b) Modem
   c) Printer
   d) Router
2. Which topology uses a single cable called a backbone?
   a) Star
   b) Bus
   c) Ring
   d) Mesh

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3. Which protocol is used to separate data into packets for transmission over a network?

   a) HTTP

   b) TCP

   c) UDP

   d) SNMP

4. Which network type is used to connect computers over large geographical areas?

   a) LAN

   b) MAN

   c) WAN

   d) PAN

5. Which of the following is a disadvantage of a computer network?

   a) Centralized storage of data

   b) High reliability

   c) Risk of hacking and viruses

   d) Faster problem solving

6. Which device is responsible for directing internet traffic to the right devices in a network?

   a) Hub

   b) Switch

   c) Router

   d) Modem

7. Which protocol is used for secure file transfer?

   a) HTTP

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b) HTTPS

c) SFTP

d) SNMP

8. Which topology is a combination of bus and star topologies?

a) Ring

b) Mesh

c) Tree

d) Star

9. Which of the following is a network security measure?

a) Login Security

b) TCP/IP

c) HTTP

d) UDP

10. Which network architecture has no dedicated server?

a) Client/Server

b) Peer-to-Peer

c) LAN

d) WAN

Quiz: Computer Networking

Question 1: What is the primary purpose of a computer network?

a) To play games

b) To share resources and information

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c) To increase the cost of communication

d) To reduce the number of devices

Question 2: Which device connects a home network to an ISP?

a) Router

b) Hub

c) Modem

d) Switch

Question 3: Which network topology is most commonly used for wireless networks?

a) Bus

b) Star

c) Mesh

d) Ring

Question 4: Which protocol is used to monitor and manage network devices?

a) HTTP

b) TCP

c) SNMP

d) UDP

Question 5: What is the main difference between TCP and UDP?

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a) TCP ensures a connection, while UDP does not.

b) UDP ensures a connection, while TCP does not.

c) TCP is used for wireless networks, while UDP is used for wired networks.

d) UDP is faster than TCP.

Question 6: Which network type is used to connect computers within a single building?

a) WAN

b) MAN

c) LAN

d) PAN

Question 7: Which of the following is a network security protocol?

a) HTTP

b) HTTPS

c) TCP

d) UDP

Question 8: In which topology is each node connected to all other nodes?

a) Bus

b) Star

c) Mesh

d) Ring

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Question 9: Which network architecture has a dedicated server?

a) Peer-to-Peer

b) Client/Server

c) LAN

d) WAN

Question 10: Which protocol is often referred to as the protocol of the Internet?

a) TCP

b) HTTP

c) UDP

d) SNMP

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