

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

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

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

- 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

- 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?

- 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

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