Q1: What is a computer network?

A1: A computer network is a group of interconnected devices that share resources and exchange data.

Q2: What are the types of network topologies?

A2: Common network topologies include Bus, Star, Ring, Mesh, and Hybrid.

Q3: What is the difference between LAN, MAN, and WAN?

A3:

- LAN (Local Area Network): Small, localized networks.
- MAN (Metropolitan Area Network): Larger networks covering cities.
- WAN (Wide Area Network): Large-scale networks spanning regions.

Q4: What is Wi-Fi?

A4: Wi-Fi is a wireless networking technology using radio waves to connect devices.

Q5: What is the purpose of IP addresses?

A5: IP addresses uniquely identify devices on a network, enabling communication.

Q6: What is the difference between TCP and UDP?

A6:

- TCP (Transmission Control Protocol): Reliable, error-checked connections.
- UDP (User Datagram Protocol): Fast, connectionless data transfer.

Q7: What is a router?

A7: A router connects multiple networks, directing traffic and managing data transmission.

Q8: What is network security?

A8: Network security protects against unauthorized access, malware, and data breaches.

Q9: What is DNS?

A9: DNS (Domain Name System) translates domain names into IP addresses.