☰ **Instructions**

1. Which transport protocol is commonly used for web browsing, file transfer, and email communication?   **1 point**

   ◉ TCP

   ○ UDP

2. Which subnet mask is associated with a Class C network?   **1 point**

   ○ 255.0.0.0

   ○ 255.255.0.0

   ◉ 255.255.255.0

   ○ 255.255.255.255

3. Which transport protocol guarantees the order of packet delivery?   **1 point**

   ◉ TCP

   ○ UDP

4. Which network protocol is responsible for resolving MAC addresses to IP addresses?   **1 point**

   ◉ ARP

   ○ DHCP

   ○ ICMP

   ○ NAT

5. Which transport protocol is responsible for breaking data into packets and reassembling them at the destination?   **1 point**

   ◉ TCP

   ○ UDP

6. What is the purpose of the default gateway in a TCP/IP network?   **1 point**

   ○ To connect different network segments

   ○ To assign IP addresses to devices

   ○ To provide secure remote access

   ◉ To forward network traffic between networks

7. Which transport protocol provides flow control and congestion control mechanisms?   **1 point**

   ◉ TCP

   ○ UDP

8. How many bits are used to represent the network portion of an IPv4 address in a Class B network?   **1 point**

   ○ 8 bits

   ◉ 16 bits

   ○ 24 bits

   ○ 32 bits

9. Which transport protocol is commonly used for streaming media and real-time communication?   1 point

    ○ TCP

    ● UDP

10. Which network protocol is responsible for assigning IP addresses to devices on a network?   1 point

    ● DHCP

    ○ DNS

    ○ FTP

    ○ SMTP

11. Which transport protocol is faster and more suitable for time-sensitive applications?   1 point

    ○ TCP

    ● UDP

12. Which network protocol provides secure file transfer over an encrypted connection?   1 point

    ○ DHCP

    ○ DNS

    ● FTPS

    ○ SMTP

13. Which transport protocol provides reliable, connection-oriented communication?   1 point

    ● TCP

    ○ UDP

14. Which network protocol is used for translating domain names to IP addresses?   1 point

    ○ DHCP

    ● DNS

    ○ FTP

    ○ SNMP

15. What is the loopback address in IPv4?   1 point

    ○ 127.0.0.0

    ● 127.0.0.1

    ○ 192.168.0.1

    ○ 10.0.0.0