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This quiz is designed to assess your existing understanding of the topic before delving into the course material. Do not worry if you find some questions challenging - that's the purpose! After completing the quiz, you'll be able to use the feedback to focus your learning efforts and make the most of the upcoming lessons.

Remember, this is a safe space to assess your current knowledge, so take your time and answer the questions to the best of your ability. You do not need to pass this quiz in order to continue the course. Once you have selected all of your answers, do not forget to click the submit button.

1. Which layer of the OSI model is responsible for establishing, managing, and terminating connections between devices? **1 point**
   - ○ Transport layer
   - ◉ Session layer
   - ○ Data link layer
   - ○ Presentation layer

2. Which model defines seven layers of networking protocols? **1 point**
   - ◉ OSI model
   - ○ DoD model
   - ○ TCP/IP model
   - ○ Ethernet model

3. Which device is used to enforce security policies by controlling the incoming and outgoing network traffic? **1 point**
   - ○ Network switch
   - ○ Router
   - ○ Modem
   - ◉ Firewall

4. Which device is responsible for determining the best path for data packets to travel across multiple networks? **1 point**
   - ○ Network switch
   - ◉ Router
   - ○ Modem
   - ○ Bridge

5. Which network topology connects all devices in a linear sequence where each device is connected to exactly two other devices, except for the first and last devices? **1 point**
   - ○ Bus topology
   - ○ Star topology
   - ◉ Ring topology
   - ○ Mesh topology

6. Which network topology consists of a single shared communication line to which all devices are connected?   1 point

   ◉ Bus topology

   ◯ Star topology

   ◯ Ring topology

   ◯ Mesh topology

7. Which network topology requires the least amount of cabling and is easy to set up, but if the central device fails, the entire network becomes inaccessible?   1 point

   ◯ Bus topology

   ◉ Star topology

   ◯ Ring topology

   ◯ Mesh topology

8. Which device provides a connection between a local area network (LAN) and the internet service provider (ISP)?   1 point

   ◯ Network switch

   ◯ Router

   ◉ Modem

   ◯ Firewall

9. Which device can be used to create logical network segments and improve network performance by reducing network congestion?   1 point

   ◉ Network switch

   ◯ Router

   ◯ Modem

   ◯ Repeater

10. The DoD model is commonly known as the: 1 point

   ◉ Four-layer model

   ◯ Five-layer model

   ◯ Six-layer model

   ◯ Seven-layer model