Introduction to the Transport and
Application Layers

The Transport Layer

The Application Layer

Graded Assessments

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The Transport and Application Layer

Quiz • 1h 10m

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1. Nodes on a network can direct traffic toward many different receiving services. What provides this ability in the transport layer?   1 / 1 point

- ⦿ Multiplexing
- ◯ Demultiplexing
- ◯ File Transfer
- ◯ Socket address

✔ **Correct**

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2. Which field in the TCP header provides the information for the receiving network device to understand where the actual data payload begins?   1 / 1 point

- ◯ Sequence number
- ◯ Acknowledgement number
- ◯ Checksum
- ⦿ Data offset

✔ **Correct**

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3. The sequence of SYN, SYN/ACK, and ACK packets is known as the _____.   1 / 1 point

- ◯ four-way handshake
- ◯ high five
- ⦿ three-way handshake
- ◯ two-way handshake

✔ **Correct**

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4. If a TCP socket is ready and listening for incoming connections, it's in the _____ state.   0 / 1 point

- ◯ SYN_SENT
- ⦿ ESTABLISHED
- ◯ LISTEN
- ◯ CLOSE_WAIT

⊘ **Incorrect**
Please review the video on TCP socket states.

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5. If the checksum doesn't compute for a packet sent at the Internet Protocol (IP) level, what will happen to the data?   1 / 1 point

- ◯ It will be sent, but may be out of order.
- ◯ The data will be sent back to the sending node with an error.
- ◯ The data will be resent
- ⦿ The data will be discarded

✔ **Correct**

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6. In the OSI network model, the _____ is responsible for making sure that the unencapsulated application layer data is actually able to be understood by the application in question.   0 / 1 point

- ⦿ session layer
- ◯ application layer
- ◯ presentation layer
- ◯ data layer

⊘ **Incorrect**
Please review the video on the application layer.

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7. You are sending a very small amount of information that you need the listening program to respond to immediately. Which Transmission Control Protocol (TCP) flag will be used?   1 / 1 point

- ◯ URG
- ◯ RST
- ⦿ PSH
- ◯ ACK

✔ **Correct**

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8. Application layer data lives in the _____ section of the transport layer protocol.   1 / 1 point

- ⦿ payload
- ◯ header
- ◯ flags
- ◯ footer

✔ **Correct**

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9. What port does the File Transfer Protocol (FTP) typically listen on?   1 / 1 point

- ◯ 443
- ◯ 25
- ⦿ 21
- ◯ 80

✔ **Correct**

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10. In what order will the Transmission Control Protocol (TCP) generally send all segments?   1 / 1 point

- ◯ Largest to smallest
- ◯ Prioritized
- ◯ Random
- ⦿ Sequential

✔ **Correct**