

Introduction to the Transport and Application Layers
The Transport Layer
The Application Layer
Graded Assessments

- Quiz: The Transport and Application Layer 10 questions
- Quiz: The Five Layer Network Model 10 questions

🎉 Congratulations! You passed!

Grade received 100%
Quiz • 1h 10m

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

- ☐ Socket address
- ☐ Demultiplexing
- ☐ File Transfer
- ☒ Multiplexing

Correct

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2. Which field in a Transmission Control Protocol (TCP) header is chosen from ephemeral ports?

- ☐ Destination port
 - ☐ Sequence number
 - ☐ Acknowledgement number
 - ☒ Source port
- Correct

3. A Transmission Control Protocol (TCP) connection is established and two devices ensure that they're speaking the same protocol. What has occurred?

- ☒ Three-way handshake
 - ☐ Four-way handshake
 - ☐ Two-way handshake
 - ☐ Handwaving
- Correct

4. A Transmission Control Protocol (TCP) connection is in working order and both sides can send each other data. What is the TCP socket state?

- ☐ SYN_SENT
 - ☐ LISTEN
 - ☐ SYN_RECEIVED
 - ☒ ESTABLISHED
- Correct

5. A communication sent through Transmission Control Protocol (TCP) arrives out of order. What allows the data to be put back together in the correct order?

- ☐ Checksum
 - ☒ Sequence numbers
 - ☐ Preamble
 - ☐ Acknowledgement number
- Correct

6. In the OSI network model, the _____ is responsible for facilitating the communication between actual applications and the transport layer.

- ☐ application layer
 - ☒ session layer
 - ☐ physical layer
 - ☐ presentation layer
- Correct

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?

- ☐ URG
 - ☐ ACK
 - ☒ PSH
 - ☐ RST
- Correct

8. HTTP is an example of a(n) _____ layer protocol.

- ☐ transport
 - ☐ network
 - ☐ data-link
 - ☒ application
- Correct

9. Ports that are generally used to establish outbound connections are known as _____ ports.

- ☐ system
 - ☐ reserved
 - ☐ registered
 - ☒ ephemeral
- Correct

10. A 32-bit number that's used to keep track of where you are in a sequence of TCP segments is known as a(n) _____ number.

- ☐ TCP
 - ☐ acknowledgement
 - ☒ sequence
 - ☐ address
- Correct

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The Transport and Application Layer

1 / 1 point

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