

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 90%

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To pass 80% or higher

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The Transport and Application Layer

Quiz • 1h 10m

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

Due Jun 4, 11:59 PM +08 Attempts 3 every 24 hours

1 / 1 point

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☒ Multiplexing

☐ File Transfer

☐ Demultiplexing

☐ 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

☐ Acknowledgement number

☐ Checksum

☐ Sequence number

☒ Data offset

✔ Correct

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

1 / 1 point

☐ Two-way handshake

☐ Four-way handshake

☐ Handwaving

☒ Three-way handshake

✔ 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?

1 / 1 point

☐ SYN_RECEIVED

☒ ESTABLISHED

☐ LISTEN

☐ SYN_SENT

✔ 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?

1 / 1 point

☒ Sequence numbers

☐ Checksum

☐ Preamble

☐ Acknowledgement number

✔ Correct

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

0 / 1 point

☐ physical layer

☐ session layer

☒ application layer

☐ presentation layer

✘ Incorrect

Please review the video on [the application layer](#).

7. One side in a Transmission Control Protocol (TCP) connection has not been able to properly recover from a series of malformed segments. Which Transmission Control Protocol (TCP) flag will be used?

1 / 1 point

☐ PSH

☒ RST

☐ FIN

☐ SYN

✔ Correct

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

1 / 1 point

☐ data-link

☐ network

☐ transport

☒ application

✔ Correct

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

1 / 1 point

☐ 443

☒ 21

☐ 80

☐ 25

✔ Correct

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

1 / 1 point

☐ Prioritized

☐ Largest to smallest

☒ Sequential

☐ Random

✔ Correct