

✔ Congratulations! You passed!

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1. The transport layer uses _____ to handle multiplexing and demultiplexing.

1 / 1 point

- ☐ Routers
- ☐ Hubs
- ☒ Ports
- ☐ Switches

✔ Correct

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

1 / 1 point

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

✔ Correct

3. A device involved in a Transmission Control Protocol (TCP) connection is ready to close the connection. The other device in the connection agrees. What has occurred?

1 / 1 point

- ☐ Two-way handshake
- ☒ Four-way handshake
- ☐ Handshake
- ☐ 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_SENT
- ☒ ESTABLISHED
- ☐ LISTEN
- ☐ SYN_RECEIVED

✔ 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
- ☐ Acknowledgement number
- ☐ Checksum
- ☐ Preamble

✔ Correct

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.

1 / 1 point

- ☐ data layer
- ☐ session layer
- ☐ application layer
- ☒ presentation layer

✔ Correct

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

- ☐ SYN
- ☐ FIN
- ☐ PSH
- ☒ RST

✔ Correct

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

1 / 1 point

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

✔ Correct

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

1 / 1 point

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

✔ Correct

10. A communication between two devices is over the maximum limit of an ethernet frame size. The Transmission Control Protocol (TCP) splits up the data into segments. Which field in the header helps keep track of the many segments?

1 / 1 point

- ☐ Acknowledgement number
- ☒ Sequence number
- ☐ Checksum
- ☐ Urgent pointer

✔ Correct