

Started on Friday, 11 February 2022, 1:10 PM
State Finished
Completed on Friday, 11 February 2022, 1:20 PM
Time taken 9 mins 50 secs
Marks 8.00/9.00
Grade 2.85 out of 3.21 (88.89%)

Question 1

Correct

Mark 1.00 out of 1.00

Which services are available in **Transport layer**? Choose all that apply.

- ☐ a. Bandwidth guarantees
- ☐ b. Delay guarantees
- ☒ c. Unreliable, unordered delivery ✓
- ☒ d. Reliable and in-order delivery ✓
- ☒ e. Flow control ✓
- ☒ f. Congestion control ✓

Your answer is correct.

The correct answers are:

Reliable and in-order delivery,

Congestion control,

Flow control,

Unreliable, unordered delivery

Question 2

Correct

Mark 1.00 out of 1.00

Which headers does the UDP segment have?

- ☐ a. Source IP address, source port, destination IP address, and destination port
- ☒ b. Source port, destination port, length, and checksum ✓
- ☐ c. Source port, destination port, length, checksum, and acknowledgement
- ☐ d. Source port, destination port, length, checksum, acknowledgement, and sequence number

Your answer is correct.

The correct answer is:

Source port, destination port, length, and checksum

Question 3

Correct

Mark 1.00 out of 1.00

What are needed for connectionless demultiplexing?

- ☒ a. Destination IP address and destination port number ✓
- ☐ b. Source IP address, source port number, destination IP address, and destination port number
- ☐ c. Source IP address, source port number, and destination IP address
- ☐ d. Source IP address and source port number

Your answer is correct.

The correct answer is:

Destination IP address and destination port number

Question 4

Correct

Mark 1.00 out of 1.00

What are needed for connection-oriented demultiplexing?

- ☐ a. Source IP address, source port number, and destination IP address
- ☐ b. Source IP address and source port number
- ☒ c. Source IP address, source port number, destination IP address, and destination port number ✓
- ☐ d. Destination IP address and destination port number

Your answer is correct.

The correct answer is:

Source IP address, source port number, destination IP address, and destination port number

Question 5

Correct

Mark 1.00 out of 1.00

What is multiplexing in transport layer?

- ☐ a. Process of delivering the received segments to correct sockets
- ☐ b. Process of forwarding packets from an input port to an output port of router
- ☒ c. Process of handling data from multiple sockets, adding transport layer headers and passing to network layer ✓

Your answer is correct.

The correct answer is:

Process of handling data from multiple sockets, adding transport layer headers and passing to network layer

Question 6

Correct

Mark 1.00 out of 1.00

Choose a correct statement about the **network layer**

- ☒ a. provides logical communication between hosts ✓
- ☐ b. provides logical communication between processes running on different hosts

Your answer is correct.

A network-layer provides logical communication between hosts

The correct answer is:

provides logical communication between hosts

Question 7

Correct

Mark 1.00 out of 1.00

Choose a correct statement about **transport layer**

- ☒ a. provides logical communication between processes running on different hosts ✓
- ☐ b. A transport-layer provides logical communication between hosts

Your answer is correct.

a) A transport-layer provides logical communication between application processes running on different hosts

The correct answer is:

provides logical communication between processes running on different hosts

Question 8

Incorrect

Mark 0.00 out of 1.00

Calculate the checksum for following UDP segment of 4 bytes. Remember that UDP checksum has 16 bits:

10100011 01110101 11000010 00101001

- ☐ a. 10011010 01100001
- ☐ b. 10011010 01100000
- ☒ c. 10011010 01100011 ✗
- ☐ d. 11011010 01100000

Your answer is incorrect.

The correct answer is:

10011010 01100000

Question 9

Correct

Mark 1.00 out of 1.00

What is demultiplexing in transport layer?

- ☒ a. Process of delivering the received segments to correct sockets ✓
- ☐ b. Process of forwarding packets from an input port to an output port of router
- ☐ c. Process of handling data from multiple sockets, adding transport header and passing to network layer

Your answer is correct.

The correct answer is:

Process of delivering the received segments to correct sockets