



Started on Wednesday, 16 October 2024, 4:29 PM

State Finished

Completed on Wednesday, 16 October 2024, 4:32 PM

Time taken 2 mins 11 secs

Grade 9.00 out of 10.00 (90%)

Question 1

Correct

Mark 1.00 out of 1.00

If an 8 KB block of data is sent as a single UDP send operation over Ethernet (without jumbo frames), IP fragmentation is just avoided.

Select one:

- ☐ True
- ☒ False ✓

Question 2

Correct

Mark 1.00 out of 1.00

In Sliding Windows, once a full timeout has occurred, there are usually no packets remaining in flight and this is referred to as:

Select one:

- ☐ a. deadlock
- ☐ b. packet starvation
- ☐ c. congestion
- ☒ d. pipeline drain ✓

Your answer is correct.

Question 3

Correct

Mark 1.00 out of 1.00

In Sliding Windows, the sender is allowed to send up to this many packets (starting with the next packet after the last acknowledged packet):

Select one:

- ☐ a. half of the window size
- ☐ b. window size minus 1
- ☒ c. window size ✓
- ☐ d. window size plus 1

Your answer is correct.

Question 4

Correct

Mark 1.00 out of 1.00

Which of the following message types is NOT a valid TFTP message type?

Select one:

- ☐ a. Read request
- ☐ b. Write request
- ☒ c. Connection request ✓
- ☐ d. Error

Your answer is correct.

Question 5

Correct

Mark 1.00 out of 1.00

The most common binary data encoding on the Internet – at least below the application layer – is big-endian encoding.

Select one:

- ☒ True ✓
- ☐ False

Question 6

Incorrect

Mark 0.00 out of 1.00



In Stop-and-Wait, deadlock can be avoided by the sender side doing retransmit-on-timeout while the receiver does not do retransmissions.

Select one:

- ☒ True ✖
- ☐ False

Question 7

Correct

Mark 1.00 out of 1.00

UDP (like TCP) avoids IP fragmentation by relying on the Path MTU Discovery mechanism.

Select one:

- ☐ True
- ☒ False ✔

Question 8

Correct

Mark 1.00 out of 1.00

Sliding Windows can work even if the receiver assumes that the window size is much less than the sender's window size value.

Select one:

- ☒ True ✔
- ☐ False

Question 9

Correct

Mark 1.00 out of 1.00

The UDP 16-bit Internet checksum on the data can be disabled by setting the checksum field to:

Select one:

- ☒ a. all 0 bits ✔
- ☐ b. -1
- ☐ c. 0xffff
- ☐ d. 65535

Your answer is correct.

Question 10

Correct

Mark 1.00 out of 1.00



In Sliding Windows, if a sender chooses window size larger than the bandwidth x RTT product, then the RTT simply grows until the bandwidth x RTT matches the chosen window size. RTT increase is due to:

Select one:

- ☐ a. packet loss
- ☒ b. queueing delays ✓
- ☐ c. data corruption
- ☐ d. all of the above

Your answer is correct.