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**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.