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Started on Monday, 25 March 2019, 9:23 PM

State Finished

Completed on Monday, 25 March 2019, 9:25 PM

Time taken 2 mins 37 secs

Marks 15.00/15.00

Grade 10.00 out of 10.00 (100%)

Question 1

Correct

Mark 1.00 out of 1.00

Stop-and-Go

Select one:

- a. does not require any window to buffer packets
- b. requires a window of size 1
- c. requires a large sequence number space
- d. requires more than 1 bit for the sequence number

Your answer is correct.

The correct answer is: requires a window of size 1

Question 2

Correct

Mark 1.00 out of 1.00

Stop-and-Go cannot provide reliability.

Select one:

- True
- 💿 🛮 False 🧹

The correct answer is 'False'.

Question 3 Correct Mark 1.00 out of 1.00	For short distances, Stop-and-Go is always efficient, but it fails to support high throughput only when the distance between the client and server is large. Select one: True False
	The correct answer is 'False'.
Question 4 Correct Mark 1.00 out of 1.00	Pipelining increases throughput (compared to stop-and-go) linearly with the window size (number packets the sender can have in the pipeline without having to stop and wait for the ACK). Select one: True False
	The correct answer is 'True'.
Question 5 Correct Mark 1.00 out of 1.00	To speed up file transfers, a Go-back-N implementation uses a window size of 5. The sequence number field in the packet header must have at least Select one: a. 5 bits b. 32 bits
	c. 3 bits ✓d. 2
	Your answer is correct. The correct answer is: 3 bits

Question 3

Mark 1.00 out of 1.00	Select one: a. 1 ✓ b. 2 c. 3 d. the same used in the sender. Your answer is correct. The correct answer is: 1
Question 7 Correct	In Selective Repeat, the sender window Select one:
Mark 1.00 out of 1.00	 a. has the same size as the receiver window
	b. is smaller than the receiver window
	c. is larger than the receiver window d. has a size of 1
	Your answer is correct.
	The correct answer is: has the same size as the receiver window
•	
Question 8 Correct Mark 1.00 out of	For a 4-bit sequence number field in the packet header, the maximum window size for Selective Repeat is
1.00	Select one:
	o a. 15
	O b. 16
	o c. 8 ✓
	O d. 7
	Your answer is correct.
	The correct answer is: 8

In Go-back-N, the receiver has a window size of

Question 6

Question 9 Correct Mark 1.00 out of 1.00	To speed up file transfers, a Selective Repeat implementation is using a window size of 8. The sequence number field in the packet header must be at least Select one: a. 8-bit long
	b. 4-bit long ✓
	c. 3-bit long
	d. 16-bit long
	Your answer is correct.
	The correct answer is: 4-bit long
Question 10 Correct Mark 1.00 out of 1.00	A TCP client sends a 100-byte packet with sequence number of 128, which reaches the sever correctly. Assuming that all previous packets from the client were received correctly and duly acknowledged by the server, what would be the acknowledgement sequence number if the server decides to immediately acknowledge this packet?
	Select one:
	a. 129
	O b. 227
	o c. 229
	■ d. 228
	Your answer is correct.
	The correct answer is: 228
Question 11 Correct Mark 1.00 out of 1.00	A TCP sender estimates RTT as 200 ms and the standard deviation of RTT from the estimated RTT as 20 ms. What timeout interval it should set for the next packet to be transmitted?
	Select one:
	a. 220 ms
	o b. 240 ms
	o c. 260 ms
	■ d. 280 ms
	Your analysis agreet
	Your answer is correct. The correct answer is: 280 ms
	THE COHECT AHOMEN 15. 200 HIS

Correct	packet.
Mark 1.00 out of 1.00	Select one:
	True ✓
	O False
	The correct answer is 'True'.
Question 13 Correct Mark 1.00 out of 1.00	A TCP receiver receives an in-order segment with expected sequence number, but it has two other segments with pending ACK. Which of the following is a possible action for this receiver?
	Select one:
	a. It sends 3 ACKs one after the other
	b. It sends 2 ACKs one after the other
	 c. It sends one cumulative ACK acknowledging all packets with pending ACK ✓
	d. It sends a Duplicate ACK.
	Your answer is correct.
	The correct answer is: It sends one cumulative ACK acknowledging all packets with pending ACK
Question 14 Correct	With Fast Transmit, a TCP sender is allowed to retransmit after receiving the same ACK
Mark 1.00 out of	Select one:
1.00	a. 2 times
	o b. 3 times
	o c. 4 times ✓
	d. 5 times
	Your answer is correct.
	The correct answer is: 4 times

TCP receiver may intentionally delay the acknowledgement of a correctly received

Question 12

Question 15 Correct	TCP is never allowed to retransmit unless there is a timeout.
Mark 1.00 out of 1.00	Select one: ☐ True ☐ False ✓
	The correct answer is 'False'.