

Grade Book Detail

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Exercise 6 (Chap 6)

Started: November 26, 2019, 2:10 pm

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Q. What is the total size of the minimum TCP MTU, including TCP and IP overhead but not including data link layer overhead?

A. 576 bytes

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Question 1: 10 out of 10 in 1 attempt(s)

Q. Consider the effect of using slow start on a line with a 10-msec round-trip time and no congestion. The receive window is 24 KB and the maximum segment size is 2 KB. How long does it take before the first full window can be sent?

A. 40 msec

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Question 2: 10 out of 10 in 1 attempt(s)

Q. Suppose that the TCP congestion window is set to 18 KB and a timeout occurs. How big will the window be if the next four transmission bursts are all successful? Assume that the maximum segment size is 1 KB.

A. 9 KB

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Question 3: 10 out of 10 in 1 attempt(s)

Q. A TCP machine is sending full windows of 65,535 bytes over a 1-Gbps channel that has a 10-msec one-way delay. What is the maximum throughput achievable? What is the line efficiency? (give your answer as xx.x)

maximum throughput: 3.3 MB/s

line efficiency: 2.6 %

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Show Answer

Question 4: 10 (parts: 5, 5) out of 10 in 1 attempt(s)

Q. In a network that has a maximum TPDU data size of 128 bytes, a maximum TPDU lifetime of 30 sec, and an 8-bit sequence number, what is the maximum data rate per connection?

A. 8.7 _____ kbps

Show Answer

Question 5: 10 out of 10 in 1 attempt(s)

What is used at the transport layer to stop a receiving host's buffer from overflowing?

- ☐ Segmentation
- ☐ Packets
- ☐ Acknowledgments
- ☒ Flow control

Show Answer

Question 6: 10 out of 10 in 1 attempt(s)

Which type of service is provided by TCP?

- ☐ request-reply
- ☐ acknowledged datagram
- ☐ reliable message stream
- ☒ reliable byte stream

Show Answer

Question 7: 10 out of 10 in 1 attempt(s)

TCP uses _____ handshake scheme to establish connections.

- ☐ one-way
- ☐ two-way
- ☒ three-way
- ☐ four-way

Show Answer

Question 8: 10 out of 10 in 1 attempt(s)

Which socket primitive is used to block the caller until a connection attempt arrives?

- ☐ bind
- ☐ listen
- ☐ connect
- ☒ accept

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Question 9: 10 out of 10 in 1 attempt(s)

If the window size field of the acknowledgement TCP segment is 90 KB, and the congestion window size is 90 KB, how many bytes could the sender transmit next time?

90 _____ KB

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Question 10: 10 out of 10 in 1 attempt(s)

Total: 100/100

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