

Grade Book Detail

Exercise 6 (Chap 6)

Started: November 28, 2019, 1:04 pm

Last change: November 28, 2019, 10:52 pm

Showing Scored Attempts | [Show Last Attempts](#) | [Show Review Attempts](#)

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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

Show Answer 576

Question 1: 10 out of 10 in 2 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

Show Answer 40

Question 2: 10 out of 10 in 2 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

Show Answer 9

Question 3: 10 out of 10 in 17 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 %

Show Answer 3.3

Show Answer 2.6

Question 4: 10 (parts: 5, 5) out of 10 in 2 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 8.704

Question 5: 10 out of 10 in 3 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 Flow control

Question 6: 10 out of 10 in 2 attempt(s)

Which type of service is provided by TCP?

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

Show Answer reliable byte stream

Question 7: 10 out of 10 in 3 attempt(s)

TCP uses _____ handshake scheme to establish connections.

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

Show Answer three-way

Question 8: 10 out of 10 in 2 attempt(s)

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

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

Show Answer accept

Question 9: 10 out of 10 in 7 attempt(s)

If the window size field of the acknowledgement TCP segment is 90 KB, and the congestion window size is 50 KB, how many bytes could the sender transmit next time?

50 KB

Show Answer 50

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

Total: 100/100

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