

Quiz-4 Results for Gabriel Warkentin

Score for this quiz: 7 out of 8

Submitted Mar 3 at 9:15pm

This attempt took 15 minutes.

Question 1

1 / 1 pts

What is the internet checksum of these two 16-bit numbers A and B? Don't put any spaces in your answer.

A = 1111010011010110

B = 1101010011110010

Correct!

0011011000110110

Correct Answers

0011 0110 0011 0110

0011011000110110

Unanswered

Question 2

0 / 1 pts

A TCP sender sends an initial window of 241 segments in which, for descriptive purposes, we refer to these as sender's segments 1 to 241.

Suppose the initial sender sequence number is 1,080 and each segment contains 684 bytes.

Due to network congestion sender's segment 23 was lost, while all other segments successfully arrived at the destination.

What is the ACK number sent from the receiver upon receiving the segment that follows the one that was lost ?

Enter number only (no punctuation marks, no spaces).

ou Answered

orrect Answer

16,128

Question 3

1 / 1 pts

Given the TCP current estimated round-trip time = 78 msec.

Suppose that the next measured value of the round-trip time is 32 msec.

Compute the TCP new value for estimated round-trip time. Use the values of $\alpha = 0.125$, and $\beta = 0.25$ when applicable.

Enter your answer in milliseconds and round to two digits after the decimal point. Enter numbers only (no unit, no spaces).

Correct!

orrect Answer

72.25 margin of error +/- 0.01

Question 4

1 / 1 pts

Given the TCP current values:

Estimated round-trip time = 36 msec

Round-trip time deviation = 24 msec

Suppose that the next measured value of the round-trip time is 44 msec.

Compute the TCP new value for round-trip time deviation. Assuming $\alpha = 0.125$, and $\beta = 0.25$ when applicable.

Enter your answer in milliseconds and round to two digits after the decimal point. Enter numbers only (no unit, no spaces).

Correct!

20

Correct Answer

20 margin of error +/- 0.01

Question 5

1 / 1 pts

After receiving a segment from the _____ layer the transport layer checks the header values.

- ☐ physical
- ☐ application
- ☒ network
- ☐ link

Correct!

Question 6

1 / 1 pts

Which transport protocol is suitable to use when network service becomes degraded?

- ☒ UDP
- ☐ All of these
- ☐ TCP
- ☐ ICMP

Correct!

Question 7

1 / 1 pts

TCP uses _____ to demultiplex datagrams.

- ☐ destination IP address and port number
- ☐ the object URL
- ☐ the host ID
- ☒ both source and destination IP addresses and port numbers

Correct!

Question 8

1 / 1 pts

TCP uses explicit ACK and NAK to indicate receipt or loss of packets.

- ☐ True
- ☒ False

Correct!

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