Multiple Choice

0.0/2.0 points (graded)

Error control in TCP is achieved through

- (●) Checksum
- ( ) Acknowledgment
- ( ) Time-out and retransmission
- ( ) All of the above ✔

✖

Submit You have used 1 of 1 attempt

Show Answer

Answers are displayed within the problem

Multiple Choice

2.0/2.0 points (graded)

Which of the following type(s) of port number will be used by a client PC?

- ( ) Registered Port Addresses
- ( ) Well known Port Addresses
- (●) Private/Dynamic Port Addresses

✔

Submit You have used 1 of 1 attempt

Show Answer

Multiple Choice

2.0/2.0 points (graded)

A socket address is a combination of _____.

- ( ) a MAC address and a logical address
- ( ) a MAC address and a port number
- ( ) a user-specific address and a logical address
- (●) None of the choices are correct

✔

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Show Answer

Multiple Choice

0.0/2.0 points (graded)

Which of the following is not true for Go Back N Protocol

- (●) If the sent segment are are found corrupted or lost then all the segments are re-transmitted from the lost segment to the last segment transmitted
- ( ) Do keep track of out of order segments ✔
- ( ) Efficient for less noisy channel
- ( ) None of the above

✖

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Show Answer

Answers are displayed within the problem

Multiple Choice

2.0/2.0 points (graded)

Out of 10 packets, all the odd packets are lost. Which of the following two methods would handle this most efficiently?

- ( ) Go-Back-N Protocol
- (●) Selective Repeat Protocol

✔

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Show Answer

a) A server sends a segment with the Acknowledgement Number 401, what does it imply? Can it be cumulative? [3 marks]

b) If the header length in a TCP header is 1101(binary), what is the header length in bytes? [2 marks]

ANSWER TO THE SHORT QUESTION

Status

You have completed this assignment. Your final grade will be available when the assessments of your response are complete.

✔ COMPLETE

▸ 1 Your Response due Nov 14, 2021 23:00 +06 (in 0 minutes)

NOT AVAILABLE

2 Staff Grade

Waiting for a Staff Grade

Check back later to see if a course staff member has assessed your response. You will receive your grade after the assessment is complete.

▾ Your Grade: Waiting for Assessments

You have completed your steps in the assignment, but some assessments still need to be done on your response. When the assessments of your response are complete, you will see feedback from everyone who assessed your response, and you will receive your final grade.

TCP Math

5.0/5.0 points (graded)

A PC and a Web Server has been communicating over a TCP connection. The PC starts with an ISN of 3905 having a window size of 1221 Bytes and the server with an ISN of 1687 having a window size of 429 Bytes. The ISN starts counting at the start of TCP Request. After the completion of the three way handshake process, the PC sends a request (of size 261 Bytes) for a web page and the server decides to reply the requested web page in multiple segments.

As such, the server replies in three data segments. The segments are of size 98 Bytes, 111 Bytes and 116 Bytes respectively.

All answers should be answered in numeric formats only. There's no decimal values. All answers are in whole numbers
Now the 2nd segment gets lost on its way. The third, however, reaches the client successfully. The client replies with an ACK segment.

(a) What is the ACK number of this segment?

1786 ✔

Answer: 1786
Explanation:
ACK number = (ISN of the Server) + 1 [SIN Flag] + (Size of the first segment)

The server retransmits the lost segments.

(b) What is the window size of the client now if the application layer has processed all bytes of Segment 1?

994 ✔

Answer: 994
Explanation:
Current window size = (Window size of the client) - (Segment 2 size) - (Segment 3 size); Segment 1 is consumed already, so it's not taking any space in the buffer of TCP

Submit You have used 2 of 2 attempts

Show Answer

Answers are displayed within the problem

[OPTIONAL] ROUGH [OPTIONAL] WORK [OPTIONAL]

Status

This assignment has closed. One or more deadlines for this assignment have passed. You will receive an incomplete grade for this assignment.

⚠ INCOMPLETE

▸ 1 Your Response due Nov 14, 2021 23:00 +06 (in 0 minutes)

NOT AVAILABLE