School of Computers and Information
Engineering Spring semester 2022

Assignment #4 [Computer Networks]

Name:- _____ **ID:** _____ **Section:** _____

Submission Date: 10 /04/ 2022 [Sunday] (**23:30 Hr**)

NOTE :
1. Take the **print of this sheet** and solve on it. Computer typed solution are not acceptable (**only handwritten** allowed)
2. Submissions not conforming to the given format will not be evaluated.

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Q1 .
  a. Explain the use of the pseudo-header for a UDP datagram and TCP segment.
     Answer

  b. When is it used?
     Answer

  c. Is it transmitted with the datagram?
     Answer

  d. How does the ultimate destination obtain the contents of the pseudo-header?
     Answer

Q2. A sender sends a series of TCP packets each containing 200 bytes to the same destination. If the sequence number starts with 0, what is the sequence number of the 10th packet?
Answer

Q3. What is the maximum payload that UDP can carry ?
Answer

Q4. Show the entries for the header of a UDP user datagram that carries a message from a TFTP client to a TFTP server. Fill the checksum field with 0s. Choose an appropriate ephemeral port number and the correct well-known port number. The length of data is 40 bytes. Show the UDP packet using the packet format.
Answer

Q5. Draw the header format of **UDP** and **TCP**
Answer