National University of Computer and Emerging Sciences, Lahore Campus

Quiz3	[BS(CS):	Section	D]	Fall	2023
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Computer Networks (Code: CS3001)	Quiz Date: November 2, 2023
total Marks: 10	Duration: 20 -Minutes
Ro	oll # Section

instructions: Attempt all questions on this sheet. You can make use of rough sheet (do not attach to this sheet).

It lost A and B are communicating over a TCP connection, and Host B has already received from A bytes up through byte 126. Suppose Host A then sends two segments to Host B back-to-back. The first segments contain 80 and 40 bytes of data, respectively. In the first segment, the sequence eknowledgment whenever it receives a segment from Host A.

(6 Marks)

- a. What is the sequence number and destination port number in the second segment sent from Host A to B?
- b. If the first segment arrives before the second segment, then, in the acknowledgment of the first arriving segment by host B to A, what will be the acknowledgment number and the destination port number?
- c. If the second segment arrives before the first segment, then, in the acknowledgment of this received segment, what will be the acknowledgment number and source port number?

22: Suppose you have the following 2 bytes: 11111010 and 01100101. Compute UDP checksum if UDP these 8- bit words in computing the checksum. Also state how will the receiver know whether an error has accurred or not.

(4 marks)

start writing your Answers from here and then use backside of this sheet.

dns. Sequence number = Wally 207

Souce port number = 302

Destination port number = 207

Acknowledgement number = 207

Destination port number = 302

Acknowledgement number = 302

Acknowledgement number = 302

Acknowledgement no = 127

Acknowledgement no = 127

Acknowledgement no = 127

Acknowledgement no = 302

The source port number = 302

Source Port = ?

Q.2 Am. BDD 11000 01100101 010011111 10011111 The veceiver adds the two fbit words and the checksom. If the any of the bit have a zero, an ensor has occured. I