National University of Computer and Emerging Sciences, Lahore Campus

	Course Name:	Computer Networks	Course Code:	CS 3001
	Program:	BS (Computer Science)	Semester:	Fall 2023
	Duration:	15 minutes	Total Marks:	15
	Paper Date:	19-October-2023	Section	5J
	Exam Type:	Quiz 3 - Chapter 3	Page(s):	2

Student Name	Roll No.	Section:

Q1. Encircle the correct option: [5 marks] [CLO 3]

1. Sequence number field in TCP segment consists of _____ byte(s).
   a) 16
   b) 32
   c) 8
   d) 1

2. User datagram protocol is called connectionless because:
   a) All UDP packets are treated independently by transport layer.
   b) No connection is made before the transfer of actual data
   c) Both a & b
   d) None

3. UDP provides
   a) Flow Control
   b) Congestion Control
   c) Fast Delivery
   d) None

True/False:

1. Flow Control: do not overwhelm the network. [T / F]

2. Multi-casting is possible in TCP. [T / F]

Q2. Suppose that TCP's current estimated values for the round-trip time (estimated RTT) and deviation in the RTT (Dev RTT) are 210 msec and 49 msec, respectively. Suppose that the next two measured values of the RTT are 280, 210.

Compute TCP's new value of estimated RTT, Dev RTT, and the TCP timeout value after each of these three measured RTT values is obtained. Use the values of α = 0.125 , β = 0.25.

[10 marks] [CLO 3]