National University of Computer and Emerging Sciences, Lahore Campus Quiz3 [BS(CS): Section C] Fall 2022

Computer Networks (Code: CS3001)	Quiz Date: October 24, 2022
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Total Marks: 10 Name Roll #		Duration: 15 -Minutes		
sheet)				
Q1: F	Encircle the correct option(s):	(4 N	Marks)	CLO 1
(i)	Length field of UDP segment indicates the length of			
A.	UDP header B. UDP payload		D. None	of these
(ii)	Urg data pointer field in TCP segment consists of	bits.		
A.	8 B. 16 C. 4	D. 1		
(iii)	Sequence number field in TCP segment consists of _	byte(s).		
A.	16 B. 32 C. 8	D. 1		
(iv)	When out-of-order segment arrives, TCP receiver im	mediately		
A. dis	cards it B. sends an ACK C. send	•		
O2:]	Host A and B are communicating over a TCP connection	-	already rece	ived from A
and so when port n receiv a. b.	tes up through byte 126. Suppose Host A then sends two econd segments contain 80 and 40 bytes of data, respectiver it receives a segment from Host A. In the first segment is 302, and the destination port number is 80. How a segment from Host A. Show necessary working What is the sequence number and destination port number at to B? If the first segment arrives before the second segment arriving segment by host B to A, what will be the acknowledgment received segment, what will be the acknowledgment	tively. Host B sendent, the sequence ost B sends an ack (2+2+2 = 6) mber in the second t, then, in the acknowledgment number, then, in the acknowledgment source the second to the secon	ds an acknown and acknown and acknown and acknown and the acknown and the acknown and the acknown and the acknown ackn	vledgment 27, the source at whenever it CLO 4 at from Host of the first destination of this
	writing your Answer to Q2 from here and then use	backside of this s	heet.	
Q2 S	olution:			
a.	Sequence number in second segment = Sequence num	nber in second seg	ment + 80 =	127 + 80 = 207
	Destination port number= 80			
b.	ACK number= 207			
	Destination port number= 302			
C	ACK number= 127			

Destination port number= 80