


National University of Computer and Emerging Sciences, Lahore Campus

	Course Name:	Computer Networks	Course Code:	CS 3001
	Program:	BS (Software Engineering)	Semester:	Spring 2024
	Duration:	15 minutes	Total Marks:	15
	Paper Date:	19-March-2024	Section	BSE-6A
	Exam Type:	Quiz 3 - Chapter 3	Page(s):	2

Student Name

Roll No.

Section:

Q1. Encircle the correct option:

[5 marks] [CLO 3]

1. Which of the following is false with respect to TCP?
 - a) Connection-oriented
 - b) Process-to-process
 - c) Transport layer protocol
 - d) Unreliable

2. What is the header size of a UDP packet?
 - a) 8 bytes
 - b) 8 bits
 - c) 16 bytes
 - d) 20 bytes

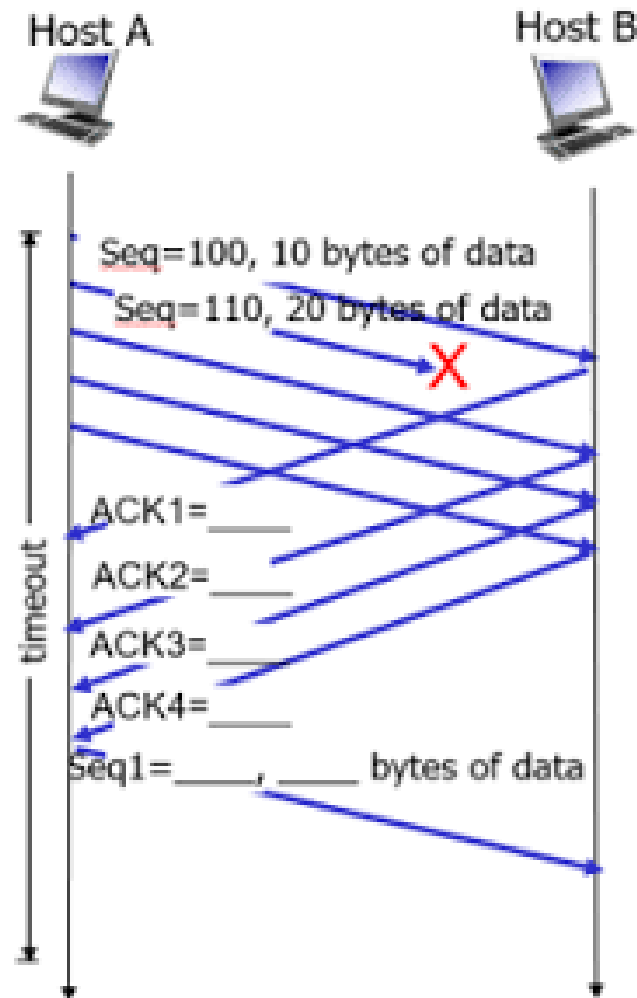
3. Which TCP mechanism is responsible for preventing a fast sender from overwhelming a slow receiver?
 - a) Congestion Control
 - b) Slow start
 - c) Congestion avoidance
 - d) Flow control

True/False:

- i. Selective Repeat uses cumulative acks [T / F]
- ii. UDP is frequently utilized in situations where minimizing delay is crucial, and a certain level of data loss is acceptable. [T / F]

Question 2

Look at the network communication scenario using TCP fast as shown in the following figure. The first packet Seq=100 arrives at the B successfully, but the second packet Seq = 110 with length 20 bytes was lost. [8 + 2 = 10 Marks] [CLO 3]



- What are the values of ACK1, ACK2, ACK3, ACK4 and SEQ1 respectively? Fill in the blanks in the diagram.
- How many bytes are transmitted in the final segment shown in diagram. Name the event that caused the transmission.