


**National University of Computer and Emerging Sciences, Lahore
Campus**

	Course Name:	Computer Networks	Course Code:	CS 3001
	Program:	BS (Software Engineering)	Semester:	Spring 2025
	Duration:	15 minutes	Total Marks:	15
	Paper Date:	06-May-2025	Section	6A
	Exam Type:	Quiz 6 - Chapter 6	Page(s):	2

Student Name

Roll No.

Section:

Q1.

[5 marks] [CLO 3]

Pure (Un-slotted) ALOHA is:

- a) Highly efficient
- b) Highly centralized
- c) Highly decentralized
- d) Fully decentralized

What is the length of the preamble in the frame header?

- a) 4 bytes
- b) 5 bytes
- c) 6 bytes
- d) 7 bytes

It is possible to detect and correct multiple bit errors on the link layer using:

- a) CRC
- b) Ethernet
- c) 2-D parity scheme
- d) None of the above

True/False:

The data link layer divides the stream of bits received from the network layer into data units called Datagram. **[T / F]**

Flow control can be implemented at the data link layer. **[T / F]**

Q2. Station A wants to send a data string $D = 1010101101$ to station B using the CRC generator string $G = 11001$ (equivalent to generator polynomial $G(x) = x^4 + x^3 + 1$). What is the complete check-summed message that is sent? (Show complete working)[10 Marks] [CLO 3]