


National University of Computer and Emerging Sciences, Lahore Campus

	Course Name:	Computer Networks	Course Code:	CS 3001
	Program:	BS (Computer Science)	Semester:	Fall 2022
	Duration:	15 minutes	Total Marks:	15
	Paper Date:	15-September-2022	Section	5A
	Exam Type:	Quiz 1 - Chapter 1	Page(s):	2

Student Name

Roll No.

Section:

Q1. Encircle the correct option:

[5 marks]

1. Which of the following is not a host?
 - a) Server
 - b) Client
 - c) Router
 - d) Peer

2. Which of the following delays are due to traffic mix and the switch/router internals?
 - a) Queueing & Transmission Delay
 - b) Propagation & Processing Delay
 - c) Propagation & Transmission Delay
 - d) Queueing & Processing Delay

3. Frequency Division Multiplexing (FDM) is used by:
 - a) Packet Switching
 - b) Circuit Switching
 - c) Hybrid
 - d) None of the above

True/False:

1. Packet Switching does not require congestion control and buffer management. [T / F]

2. ISO/OSI reference model has 5 number of layers. [T / F]

Q2. Consider that the link capacity of a channel is 512 Kbps and round – trip time is 1000ms. What is the bandwidth delay product? **[5 Marks]**

Solution:

Q3.

(a) Which delay is directly proportional to the size of the packet? **[1 Marks]**

(b) How long does a payload of 2 KB takes to propagate over a link of distance 1500 km, propagation speed 2.5×10^8 m/s, and transmission rate 4 Mbps? **[4 Marks]**