	Course Name:	Computer Networks	Course Code:	CS 3001
	Program:	BS (Computer Science)	Semester:	Fall 2023
	Duration:	15 minutes	Total Marks:	15
	Quiz Date:	14-Sept-2023	Section	5J
	Exam Type:	Quiz 1 - Chapter 1	Page(s):	2

Student Name   **Roll No.**   **Section:**

Q1. Encircle the correct option: **[5 marks] [CLO 1]**

1. Which of the following is not a part of access network?
   a) Edge Router
   b) Server
   c) Physical Media
   d) Both (b) & (c)

2. Which of the following delays are due to link properties?
   a) Queueing & Transmission Delay
   b) Propagation & Processing Delay
   c) Propagation & Transmission Delay
   d) Queueing & Processing Delay

3. In which of the following a DSLAM is used
   a) Edge Node
   b) Cable Network
   c) Optic Fiber
   d) None of the above.

   True/False:

   1. Transport Layer is implemented on a router. [T/F]

   2. Packet Switching uses Time Division Multiplexing. [T / F]

Q2. Assume that you are downloading an MP3 file of size 200 Mega bits (1 Mega = 10^6). The transmission rate of server link is, i.e. Rs is 16 Mbps while transmission rate i.e., Rc of your access link is 4 Mbps. What is the required time to transfer the file considering that all delays except transmission delay are negligible? **[5 Marks] [CLO 1]**

Solution:

Q3.
(a) Which delay is directly proportional to the size of the packet? **[1 Mark] [CLO 1]**

(b) How long does a payload of 2 KB takes to propagate over a link of distance 1500 km, propagation speed 2.5 x 10^8 m/s, and transmission rate 4 Mbps? **[4 Marks] [CLO 1]**