

Department of ECE
AY 22-23 – EVEN Semester
ASSIGNMENT –I

Course: 18ECC303J – Computer Communication Networks

Total Marks: 10

Submission Date: 14/02/2023

1. Under what conditions would circuit switching be a better network design than packet switching? (4 Marks)
2. What is the difference between transmission delay and propagation delay? (1 Mark)
3. Which layer in OSI model is responsible for the following functions: (5 Marks)

	Functions	OSI Layer
1	Segments And Resembles Data Into A Data Stream	
2	Provides Logical Addressing That Routers Will Use For Path Determination ?	
3	Specifies Voltage, Wire Speed, And Pinout Cables And Moves Bits Between Devices	
4	Responsible For Keeping The Data From Different Applications Separate On The Network	
5	Combines Bits Into Bytes And Bytes Into Frames, Uses Mac Addressing, And Provide Error Detection	
6	Provides The Physical Transmission Of The Data And Handles Error Notification, Network Topology, And Flow Control	
7	Manages Device Addressing, Tracks The Location Of Devices On The Network, And Determine The Best Way To Move Data	
8	Defines How Data Is Formatted, Presented, Encoded and Converted For Use On The Network	
9	Responsible For Creating, Managing And Terminating Sessions Between Applications?	
10	Responsible For Converting Data Packets From The Data Link Layer Into Electrical Signals	