B.E. / B.Tech. DEGREE EXAMINATION, MAY 2021
Fourth Semester
Information Technology

19UIT406– COMPUTER NETWORKS

(Regulation 2019

Duration: 1 :45 hours   Maximum: 50 Marks

PART A (5 X 10   = 50 marks)
ANSWER ALL THE QUESTIONS

1.a.	Apply the concept of Time division multiplexing in the telephone network systems with the neat diagram.	Apply

OR

1.b.	Apply the concept of infrastructure with the proper diagram and justify the working of infrastructure with an example.	Apply

2.a.	A bit stream 10011101 is transmitted using the standard CRC method. The generator polynomial is x3+1. 1. What is the actual bit string transmitted? 2. Suppose the third bit from the left is inverted during transmission. How will receiver detect this error?	Apply

OR

2.b.	Apply any one of the concept of Sliding Window Protocols to improve the efficiency of the network and describe the workflow with necessary diagrams	Apply

3.a.	The sender is a router and received a datagram destined for a host on another network, Use ARP to find the next router's physical address.	Apply

OR

3.b.	Apply the concept of BOOP to demonstrate the situations i)Client and Server on same networks ii)Client and Server on different networks	Apply

4.a.	Apply the steps involved in leaky bucket algorithm for traffic shaping or traffic policing in a telecom networks to improve the quality of service	Apply

OR

4.b.	Apply the concept of TCP in the client server network to ensure the successful delivery of data over the internet with proper example	Apply

| 5.a. | Apply the steps involved in fixing the problem of sending or receiving email Using IMAP | Apply |

OR

| 5.b. | Apply the steps involved in TELNET to enable the telnet client for the windows | Apply |