Code No: 155AU

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech III Year I Semester Examinations, February - 2022
DATA COMMUNICATION AND COMPUTER NETWORKS
(Information Technology)

Time: 3 hours   **Max. Marks: 75**

Answer any five questions
All questions carry equal marks
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1.a)   What is Multiplexing? Write about FDMA, TDMA?
  b)   Define the network topology? List various types of Topologies.   [10+5]

2.   Describe the various Transmission modes with examples.   [15]

3.a)   What is the functionality of Data link layer in ISO- OSI model?
  b)   Write about the Error detection techniques Parity bit and LRC.   [7+8]

4.a)   What is Flow control? Write about Stop and wait Protocol.
  b)   Explain about PPP.   [8+7]

5.a)   What are the types of class full addressing?
  b)   Write about IPV4.   [8+7]

6.   Discuss with Uni-Cast Routing Protocols.   [15]

7.a)   Differences between TCP and UDP Protocols.
  b)   What is mean by congestion control? Compare Open loop congestion control and
        Closed loop congestion control?   [7+8]

8.a)   Discuss with simple mail transfer protocol.
  b)   Explain about WWW.   [8+7]

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