Code No: 155AU/135AE

R18/R16

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech III Year I Semester Examinations, March - 2021
DATA COMMUNICATION AND COMPUTER NETWORKS
(R18-Information Technology; R16-Common to CSE, IT)

Time: 3 Hours   Max. Marks: 75

Answer any five questions
All questions carry equal marks
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1.   Explain the following:
        a) ATM
        b) Frame relay
        c) ISDN.   [5+5+5]

2.a)   Describe ALOHA. Differentiate between pure Aloha and slotted Aloha.
  b)   Illustrate IEEE 802.11 frame format.   [8+7]

3.   Illustrate any two unicast routing protocols and two multicast routing protocols.   [15]

4.a)   Differentiate TCP and UDP protocols header formats.
  b)   Explain QoS in Switched Networks.   [8+7]

5.   Illustrate DNS. How it is useful for mapping IP address? Explain.   [15]

6.   Describe following:
        a) Tunneling
        b) Internetworking.   [7+8]

7.   Illustrate ISO/OSI model with neat diagram and explain functionality of each layer.
                                                                                                [15]

8.a)   Explain guided transmission media in brief.
  b)   Differentiate noiseless channels and noisy channels.   [7+8]

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