

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**

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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