R18/R16

Code No: 155AU/135AE

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   [5+5+5]
   c) ISDN.

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

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

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

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

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

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

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

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