

R13

Code No: 115DT

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**B. Tech III Year I Semester Examinations, November/December - 2016****COMPUTER NETWORKS****(Common to CSE, IT)****Time: 3 hours****Max. Marks: 75**

Note: This question paper contains two parts A and B.
Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A**(25 Marks)**

- 1.a) What is Frame Relay? [2]
- b) Write about communication satellites. [3]
- c) Define time domain reflectometry. [2]
- d) Difference between Pure ALOHA and slotted ALOHA. [3]
- e) Write about Jitter control. [2]
- f) Write down the design issue of network layers. [3]
- g) Write about Tunneling. [2]
- h) What are the concepts of extension header in IPv6? [3]
- i) Compare RPC and RTP. [2]
- j) How does persistence timer is useful in TCP? [3]

PART - B**(50 Marks)**

2. Explain and demonstrate Selective repeat sliding window Protocol with an example. [10]
- OR**
- 3.a) Write short notes on Wireless Transmission. [3]
- b) Describe in detail about Lightwave transmission. [7]
- ④. What is the purpose of CSMA CD? And Explain it. [10]
- OR**
5. Explain about the following:
a) Spanning Tree Bridge [5]
- b) Remote bridge. [5]
- ⑥. Write briefly about Congestion control in datagram subnets. [10]
- OR**
7. Write an example, demonstrate how to make routing table using distance vector routing. And list down the limitation. [10]
- ⑧. How would you describe the operation of Address resolution protocol? [10]
- OR**
9. Explain in detail about crash recovery. [10]
- ⑩. How would you summarize the concepts of E-mail, its architecture and services? [10]
- OR**
11. Describe in detail about TCP segment header and connection Establishment. [10]