Code No: 115DT

R13

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.
  b) Describe in detail about Lightwave transmission. [3+7]

4. What is the purpose of CSMA CD? And Explain it. [10]

OR

5. Explain about the following:
  a) Spanning Tree Bridge
  b) Remote bridge. [5+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]