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]

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