Code No: 117BY

R13

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech IV Year I Semester Examinations, November/December - 2017
COMPUTER NETWORKS
(Common to ECE, EIE, BME)

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 CRC checker?	[2]
b)	Write the advantages of layered architecture of network.	[3]
c)	Define exponential Back off.	[2]
d)	What is piggy backing? How does it useful?	[3]
e)	Write the functions of LLC.	[2]
f)	Write the responsibilities of network layer.	[3]
g)	What is multiplexing? Give different types of multiplexing?	[2]
h)	Write about Tunneling.	[3]
i)	What is DNS? Write its properties.	[2]
j)	Explain MIME header	[3]

Part-B

(50 Marks)

2.a)	Compare TCP/IP and OSI reference model.	
b)	Explain about framing.	[5+5]

OR

3.a)	Explain stop and wait protocol.	
b)	Give a detail note on Hamming code.	[5+5]

4.a)	Explain CSMA/CD protocol and how does it detect collision?	
b)	Discuss about switched and fast Ethernet.	[5+5]

OR

5.a)	Explain MAC sub layer protocol in detail.	
b)	Discuss about spanning tree bridges.	[5+5]

6.a)	Explain link state routing algorithm in detail.	
b)	Write the optimality principle of routing algorithms.	[5+5]

OR

7.a)	Describe hierarchical routing algorithm in detail.	
b)	Write a note on load shedding.	[5+5]

8.a) Explain IPV6 packet format.
  b) Describe fragmentation in internet working with an example.   [5+5]
<center>**OR**</center>
9.a) Explain Address resolution protocol in detail.
  b) Write the principles of network layer in internet.   [5+5]

10.a) Explain TCP sliding window protocol.
  b) Give a detail note on HTTP request-response model.   [5+5]
<center>**OR**</center>
11.a) Explain File transport protocol.
  b) Compare TCP and UDP protocols.   [5+5]

<center>**--ooOoo--**</center>

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