# Code No: 115DT

# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech III Year I Semester Examinations, November - 2015 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 are the issues in data link layer?	[2]
b)	How Internet is administered?	[3]
c)	What is a switch?	[2]
d)	Explain spanning tree bridge.	[3]
e)	What is optimality principle?	[2]
f)	Explain datagram subnet.	[3]
g)	What is crash recovery?	[2]
h)	Explain packet fragmentation.	[3]
i)	What is electronic mail?	[2]
j)	What is TELNET?	[3]

#### PART - B (50 Marks)

2.a)	Compare OSI and TCP/IP reference model.	
b)	Discuss about Internet standards.	[5+5]
,	OR	
3.a)	Describe guided transmission media.	
b)	Explain the algorithm for CRC method of error checking.	[5+5]
4.	In detail, explain the various ALOHA protocols.	[10]
	OR	
5.a)	Explain fast Ethernet and gigabit Ethernet.	
b)	Using hub, bridge, switches and router, build a network and explain the network.	[5+5]
6.	With an example, explain shortest path routing.	[10]
	OR	
7.a)	What is count-to-infinity problem? Explain.	
b)	Explain the congestion prevention policies.	[5+5]
8.	Explain the following protocols:	
	a) RARP	
	b) DHCP.	[5+5]
	OR	
9.a)	What are the services provided by transport layer to the upper layers?	
b)	Explain the connect www.bli Mana Result Iransfort a. in	[5+5]



	Explain the real time transport protocol. Explain the TCP transmission policy.	[5+5]		
OR				
11.a)	Explain TCP congestion control.			
b)	Write short notes on:			
	i) DNS			
	ii) FTP.	[5+5]		

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