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**R15** 

[5+5]

## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA III Semester Examinations, August - 2017 COMPUTER NETWORKS

Time: 3hrs 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		
$5 \times 5 \text{ Marks} = 2$		
l.a)	What is Hamming code? How it is useful in computer networks?	[5]
b)	Write the functions of MAC and LLC.	[5]
c)	What is optimality principle in routing? Explain briefly.	[5]
d)	Describe in detail about tunneling.	[5]
e)	Compare TCP and UDP.	[5]
	PART - B	
$5 \times 10 \text{ Marks} = 50$		
2.	Describe the layers of OSI reference model and compare it with TCP model.	[10]
	OR	[10]
3.a)	Explain stop and wait protocol in detail.	
b)	Explain, How flow control is achieved in data link layer?	[5+5]
	To.	
1.	Explain in detail about ALOHA protocol.	[10]
	OR OR	
5.a)	Describe MAC protocol operations on a token ring.	
b)	Give a note on frame formats of token ring.	[5+5]
ó.a)	What is flooding and describe reliable flooding.	
b)	Describe hierarchical routing.	[5+5]
U)	OR	[5,5]
7.	Explain in detail about link state routing algorithm.	[10]
-	Entrans in actual accus and realing inger	[10]
3.	Describe Address resolution protocol in detail.	[10]
	OR	. ,
).a)	Describe dynamic host congestion protocol in detail.	
b)	Write the services of transport layer.	[5+5]
0.	Describe TCP header in detail.	[10]
OR		

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11.

Write short notes on

b) SMTP protocol.

a) TELNET