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Code No: 823AE

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA III Semester Examinations, January - 2018 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

		5×5 Marks = 25
1.a)	Write about TCP/IP reference model.	[5]
b)	Discuss the internetworking devices Hub, Router and Gateway.	[5]
c)	Explain flooding routing algorithm.	[5]
d)	Explain the use of tunneling.	[5]
e)	What is HTTP and explain its request methods?	[5]
PART - B		
		\times 10 Marks = 50
2.	Discuss data link layer design issues.	[10]
	OR	[20]
3.a)	Explain selective repeat sliding window protocol with an example.	
b)	Discuss about Internet standards.	[5+5]
4.a)	Explain frame format of IEEE 802.3 standard Ethernet.	
b)	Explain working of CSMA/CD.	[5+5]
ŕ	OR	2 3
5.	Explain various ALOHA protocols.	[10]
	.,5	
6.a)	What is meant by congestion control? How it is implemented in network l	ayer.
b)	Discuss about various congestion control algorithms in detail.	[5+5]
	OR	
7.	Explain distance vector routing algorithm with example.	[10]
0		F1.03
8.	Explain in detail about crash recovery.	[10]
0 -)	OR	
9.a)	Explain IPV6 header format with the help of a neat diagram.	[5,5]
b)	Discuss about RARP.	[5+5]
10.a)	Explain TCP connection management.	
b)	Explain TCP congestion control.	[5+5]
0)	OR	[5/5]
11.a)	Explain DNS.	
b)	What are the services provided by DNS and explain how it works.	[5+5]
0,	and services provided by 2116 and explain now it works.	[5,5]

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