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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 N	Jarks = 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		
2		1arks = 50
2.	Discuss data link layer design issues.	[10]
OR		
3.a)	Explain selective repeat sliding window protocol with an example. Discuss about Internet standards.	[5+5]
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]
	OR	,
5.	Explain various ALOHA protocols.	[10]
	. (5)	
6.a)	What is meant by congestion control? How it is implemented in network layer.	
b)	Discuss about various congestion control algorithms in detail.	[5+5]
	OR	
7.	Explain distance vector routing algorithm with example.	[10]
0	Evaluin in detail shout each economy	[10]
8.	Explain in detail about crash recovery. OR	[10]
0 a)	Explain IPV6 header format with the help of a neat diagram.	
9.a) b)	Discuss about RARP.	[5+5]
U)	Discuss about KARF.	[5+5]
10.a)	Explain TCP connection management.	
b)	Explain TCP congestion control.	[5+5]
OR		
11.a)	Explain DNS.	
b)	What are the services provided by DNS and explain how it works.	[5+5]

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