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Code No: 823AE JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA III Semester Examinations, December - 2019 COMPUTER NETWORKS

Time: 3hrs

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 Mail	6 - 25
1.a) b) c) d) e)	What are the design issues of Data link layer? Write the uses of bridges. Define Flooding. What is Packet Fragmentation? List the applications of application layer.	[5] [5] [5] [5]
PART - B		
	5 × 10 Marl	cs = 50
2.a)	Explain about Sliding Window Protocols.	10.00
b)	Explain about the INTERNET history. OR	[5+5]
3.	What is TCP/IP Model? Explain the functions and protocols and services of each	laver
5.	Compare it with OSI Model.	[10]
	compare it with obstanticular	[10]
4.	Write a short note on	
	a) 1-persistent CSMA b) Non-persistent CSMA c) P-persistent CSMA	A [10]
	OR	
5.a)	Explain about the Standard Ethernet	
b)	Write about learning bridges and spanning tree bridges.	[5+5]
6 0)	Explain the count-to-infinity problem.	
6.a) b)	Describe about the optimality principle.	[5+5]
0)	OR	[2,2]
7.a)	Explain about shortest path algorithm.	
b)	What are the network layer design issues?	[5+5]
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8.a)	What is Tunneling? Explain in detail.	
b)	Explain about the IP Version 6 Protocol.	[5+5]
	OR	
9.	Explain in detailed about the Transport Layer.	[10]
10.a)	Differentiate between FTP and HTTP.	
b)	Explain about UDP protocols.	[5+5]
0)	OR	[2,2]
11.a)	Discuss in detail TCP segment header.	
b)	Explain about TELNET and SSH.	[5+5]
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Max.Marks:75



5 × 5 Marks = 25