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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

MCA III Semester Examinations, December - 2019 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	
		$5 \times 5 \text{ Marks} = 25$
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	
	1AR1 - B	$5 \times 10 \text{ Marks} = 50$
2.a) b)	Explain about Sliding Window Protocols. Explain about the INTERNET history. OR	[5+5]
3.	What is TCP/IP Model? Explain the functions and protoc Compare it with OSI Model.	ols and services of each layer. [10]
4.	Write a short note on a) 1-persistent CSMA b) Non-persistent CSMA OR	c) P-persistent CSMA [10]
5.a) b)	Explain about the Standard Ethernet. Write about learning bridges and spanning tree bridges.	[5+5]
6.a) b)	Explain the count-to-infinity problem. Describe about the optimality principle. OR	[5+5]
7.a) b)	Explain about shortest path algorithm. What are the network layer design issues?	[5+5]

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]

[5+5]

10.a) Differentiate between FTP and HTTP.

b) Explain about UDP protocols.

OR

11.a) Discuss in detail TCP segment header.

b) Explain about TELNET and SSH. [5+5]

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