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Code No: 843AB

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA III Semester Examinations, December - 2019 COMPUTER NETWORKS

COMPUTER NETWORKS		
Time: 3hrs Max.Marks:75		
Note: This question 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)	Explain briefly about design issues for layers in computer network. What is bridge? What are the uses of bridges in computer network? What is flooding? Explain it briefly. Write the services of transport layer. What is HTTP protocol? Describe its feature and header.	[5] [5] [5] [5]
PART - B		
		10 Marks = 50
2.	Explain TCP-IP reference model for computer network and compareference model.	re it with OSI [10]
3.a) b)	Compare PAN, LAN and WAN. What are fiber optics media? Explain its advantages and compare wirmedia.	th other guided [5+5]
4.a) b)	Explain about Hamming code with an example. Give a note on wireless LANs.	[5+5]
5.	OR What is simplex stop and wait protocol? Explain it for error free and noisy channel.[10]	
6.a) b)	Explain design issues of network layer. Write about packet fragmentation. OR	[5+5]
7.	Elaborate congestion avoiding techniques in network layer.	[10]
8.a) b)	Write the feature TCP protocol. Explain Connection establishment technique in TCP. OR	[5+5]
9.a) b)	Explain Performance issues of TCP. Describe Real Time Transport protocol.	[5+5]
10.a) b)	Describe Session Initiation protocol. Explain the features of JPEG video compression format. OR	[5+5]
11.	Write notes on	5.6

b) Role of DNS in computer network.