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Max.Marks:75

Code No: 823AE JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA III Semester Examinations, April/May - 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 Marks = 25

1.a) b) c) d) e)	Discuss flow control technique in data link layer. Write the assumptions for dynamic channel allocation. Write the services of network layer provided to transport layer. Explain the primitives of transport layer. Write the features of TCP. PART - B 5×10 Mark	[5] [5] [5] [5] [5] xs = 50
2.	Explain OSI reference model of computer network with suitable diagram and about role of each layer of OSI reference model.	discuss [10]
3.a) b)	Discuss about sliding window protocol for noisy channel. Write about Go-back-N protocol.	[5+5]
4.a) b)	Explain learning bridges with a neat sketch. Elaborate bit map protocol.	[5+5]
5.	Explain persistent and non persistent CSMA protocols.	[10]
6.a) b) 7.	What is virtual circuit? Explain it briefly. Give a detailed note on flooding. OR Explain the following routing techniques.	[5+5]
7.	a) Broadcasting routingb) Distance vector routing.	[5+5]
8.	Explain in detail about ARP protocol.	[10]
9.	OR Explain steps for connection establishment and releasing in transport layer.	[10]
10.a) b)	Explain UDP message queuing technique. Describe HTTP message formats. OR	[5+5]
11.	Write notes on a) POP b) TCP sliding window.	[5+5]