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 $5 \times 5$  Marks = 25

[5+5]

Code No: 823AE

## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA III Semester Examinations, April/May - 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

1.a)	Discuss flow control technique in data link layer.	[5]
b)	Write the assumptions for dynamic channel allocation.	[5]
c)	Write the services of network layer provided to transport layer.	[5]
d)	Explain the primitives of transport layer.	[5]
e)	Write the features of TCP.	[5]
	PART - B	
	5 × 10 M	arks = 50
2.	Explain OSI reference model of computer network with suitable diagram ar	d diecnes
2.	about role of each layer of OSI reference model.	[10]
	OR	[IU]
3.a)	Discuss about sliding window protocol for noisy channel.	
b)	Write about Go-back-N protocol.	[5+5]
0)	White about do back it protects.	[5.5]
4.a)	Explain learning bridges with a neat sketch.	
b)	Elaborate bit map protocol.	[5+5]
٠,	OR	[5.5]
5.	Explain persistent and non persistent CSMA protocols.	[10]
		()
6.a)	What is virtual circuit? Explain it briefly.	
b)	Give a detailed note on flooding.	[5+5]
	OR	
7.	Explain the following routing techniques.	
	a) Broadcasting routing	
	b) Distance vector routing.	[5+5]
8.	Explain in detail about ARP protocol.	[10]
	OR	
9.	Explain steps for connection establishment and releasing in transport layer.	[10]
10 ->	E-ti-TIDD	
10.a)	Explain UDP message queuing technique.	[5.5]
b)		[5+5]
11.	OR Write notes on	
11.	Write notes on a) POP	
	a) FOF	



b) TCP sliding window.