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Code No: 813AR

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA III Semester Examinations, August - 2017 COMPUTER NETWORKS

Time: 3 Hours Max. Marks: 60

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 8 marks and may have a, b, c as sub questions.

	PART - A	
		5×4 Marks = 20
1.a)	What is the use of data link layer?	[4]
b)	Explain about pure ALOHA and slotted ALOHA.	[4]
c)	What is store and forward packet switching? Explain.	[4]
d)	Draw the diagram of IPv4 header.	[4]
e)	Write short notes on UDP and its header.	[4]
	PART - B	
$5 \times 8 \text{ Marks} = 40$		
2.	Explain in detail about OSI Reference model with a neat diagram	
	OR	[0]
3.a)	Explain about sliding window protocol.	
b)	Write short notes on evolution of internet.	[4+4]
υ,	The short hotes on evolution of internet.	[]
4.	Discuss about collision free protocols.	[8]
••	OR	[0]
5.	Explain about	
J.	a) Classic Ethernet physical layer.	
	b) Classic Ethernet MAC sub layer protocol.	[4+4]
	of Classic Edicinet MAC sub-tayer protocol.	[4.4]
6.a)	What is a virtual circuit network? Explain.	
b)	Discuss about count to infinity problem.	[4+4]
υ,	OR	[]
7.	Explain about	
,.	a) Distributed Bellman-Ford routing algorithm.	
	b) Admission control.	[4+4]
	of running control	[]
8.	Explain about	
	a) Tunneling	
	b) Internetwork routing.	[4+4]
	OR	[]
9.	Discuss about various IP Addresses.	[8]
		[-1
10.	Explain about TCP sliding window protocol.	[8]
20.	OR	[-]
11.	Explain about	
	a) E-mail b) DNS.	[4+4]

