

Code No: 127BY

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year I Semester Examinations, May/June - 2019 **COMPUTER NETWORKS**

(Electronics and Communication Engineering)

Time: 3	3 Hours	Max. Marks: 75
Noto.	This question paper contains two parts A and R	

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

		(25 Marks)
1.a)	Write the problems encountered in OSI reference model.	[2]
b)	What is the purpose of Hamming code?	[3]
c)	What is repeater?	[2]
d)	Define thin and thick Ethernet.	[3]
e)	What is congestion control?	[2]
f)	Explain briefly about flooding.	[3]
g)	What is crash recovery?	[2]
h)	What are the disadvantages of IPv4?	[3]
i)	Give the HTTP message format.	[2]
j)	What are the services offered by application layer?	[3]
	Part-B	
		(50 Marks)
	200	(
2.a)	Explain various wired transmission media.	
b)	With a neat sketch, explain TCP reference model.	[5+5]
	OR	
3.a)	Explain HDLC protocol.	
b)	Write a note on Go-Back-N protocol.	[5+5]
4.a)	Describe ALOHA protocol in detail and give its disadvantages.	
b)	Elaborate learning bridges.	[5+5]
	OR	
5.a)	Explain pure Aloha and slotted Aloha.	
b)	Explain the frame format of Ethernet.	[5+5]
6.a)	Write the concept of distance vector routing and illustrate with an example.	
b)	Describe packet switching in detail.	[5+5]
,	OR	
7.a)	Compare Virtual circuit and datagram networks.	
b)	Give a brief note on approaches of congestion control.	[5+5]



[5+5]



8.a)	Describe packet fragmentation.	
b)	Explain dynamic host configuration protocol (DHCP).	[5+5]
	OR	
9.a)	Explain about the ARP.	
b)	Illustrate with an example three way hand shake protocol for connection establish transport layer.	hment in [5+5]
10.a)	Describe TCP segment header.	
b)	Discuss about protocols used between mail transfer agents.	[5+5]
	OR	
11.a)	Explain about DNS.	

--ooOoo--

b) Explain in detail slow-start congestion control technique in TCP.

MMM.FirstRanker.com