8R	8R 8R 8R 8R	8R	8
8R	No: 127BY JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDER B. Tech IV Year I Semester Examinations, May/June - 2019 COMPUTER NETWORKS (Electronics and Communication Engineering) Max. M This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part consists of 5 Units. Answer any one full question from each unit. Each carries 10 marks and may have a, b, c as sub questions.	ABAD arks: 75 A. Part B	8
8R	8R 8R 8R 8R	(25 Marks)	8
1.a) b) c) d) e) f) g) h) i) j)	Write the problems encountered in OSI reference model. What is the purpose of Hamming code? What is repeater? Define thin and thick Ethernet. What is congestion control? Explain briefly about flooding. What is crash recovery? What are the disadvantages of IPv4? Give the HTTP message format. What are the services offered by application layer?	[2] [3] [2] [3] [2] [3] [2] [3] [2] [3] [2] [3] [2] [3]	8
8R	8R 8R 8Part-B 8R 8R	(50 Marks)	8
2.a) b)	Explain various wired transmission media. With a neat sketch, explain TCP reference model. OR	[5+5]	
3.a) b) 4.a) b)	Explain HDLC protocol. Write a note on Go-Back-N protocol. Describe ALOHA protocol in detail and give its disadvantages. Elaborate learning bridges. OR	[5+5]	8
5.a) b)	Explain pure Aloha and slotted Aloha. Explain the frame format of Ethernet.	[5+5]	
6.a) b)	Write the concept of distance vector routing and illustrate with an example. Describe packet switching in detail. OR	[5+5]	8
7.a) b)	Compare Virtual circuit and datagram networks. Give a brief note on approaches of congestion control.	[5+5]	
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	8R	8R	8 R	8 ₁ R	18R	8R	8 R	8
	8.a) b) 9.a) b)	Explain dynam Explain about	the ARP.	ation protocol (D	HCP).	S Range of the stablish and the stablish	[5+5] Shment in [5+5]	8
	10.a) b)		segment header.	etween mail trans	sfer agents.		[5+5]	
- e	≥ 11.a) b)	Explain about	DNS:	\bigcirc \bigcirc \bigcirc \bigcirc	technique in TCF	, 8R	[5+5]	8
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	8R	8R /	8R	8R,	8R°	8R	8R	8
,	8R	8R	88	88	8R	88	8R	8
d 8	8R	8 P	8R	8R	18R	8R	8R	8
	8R 4	8R 4	8R	88	18 ₁ R	8R,	8R	8
	90	Q D		Q D			2 D	9