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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR			
(AUTONOMOUS) B.Tech IV Year I Semester Supplementary Examinations August-2022			
INTERNETWORKING WITH TCP/IP			
(Computer Science & Information Technology)			
Time: 3 hoursMax. Marks: 60			
		(Answer all Five Units 5 x 12 = 60 Marks) UNIT-I	
1	a	Explain the purpose of each layer in the OSI Model.	6M
	b	Discuss about Classful addressing in detail	6M
2	a	OR What are the four levels of addresses used in an internet employing the TCP/IP	6M
-	a	protocols?	0101
	b	Write short notes on the following	6M
		(i) Check sum calculation (ii) NAT	
_		UNIT-II	
3	a L	With a neat diagram explain the significance of ATMARP packet.	7M 5M
	b	List and describe the five types of error reporting messages in ICMPv4. OR	5M
4	a	How do you identify Physical address from Logical Address? Illustrate details.	8 M
	b	Explain in detail about Debugging tools.	4M
		UNIT-III	
5	a	Explain with an example the two-node loop problem and also give the solutions to this problem.	8M
	b	Distinguish between Intra- and Inter- domain Routing.	4M
		OR	-
6	a b	Write Pseudo code for Bellman-Ford Algorithm. Describe briefly about Path vector routing.	7M 5M
	U	UNIT-IV	3111
7	a	What is UDP? Explain UDP Packet in detail.	6M
	b	Give the format of TCP segment header and explain the significance of each field.	6M
		OR	
8	a	Explain three-way handshaking for connection termination.	6M
	b	Discuss about applications of UDP.	6M
9	0	UNIT-V How do you perform congestion control in TCP2	6M
9	a b	How do you perform congestion control in TCP? Explain ICMPV6 error-reporting messages.	6M
	~	OR	UIVE
10	a	What is Silly window syndrome? Give the two solutions to prevent it.	6M
	b	Discuss the five components of TCP Package and their interactions.	6M