Q.P. Code: 18CI0610

**R18** 

Reg. No:

## SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS)

## B.Tech III Year II Semester Supplementary Examinations February-2022 INTERNETWORKING WITH TCP/IP

(Computer Science & Information Technology)

Tim	e: 3	hours Max. Ma	ırks: 60
		PART-A	
		(Answer all the Questions $5 \times 2 = 10$ Marks)	
1.	a	What is IP address?	<b>2M</b>
	b	Write short notes on ARP Package.	<b>2M</b>
	c	What is meant by Routing Protocol?	<b>2M</b>
	d	What are the UDP Applications?	<b>2M</b>
	e	What is Informational Messages?	<b>2M</b>
		$\underline{PART-B}$	
		(Answer all Five Units 5 x $10 = 50$ Marks)	
		UNIT-I	
2	W	rite notes about	
	a	IPV4 Options	5M
	b	Check sum calculation.	5M
		OR	
3	a	Discuss the four levels of addresses used in an internet employing the TCP/IP	5M
		protocols.	
	b	Explain the fields related to fragmentation and reassembly of an IP datagram.	5M
		UNIT-II	
4	a	With neat diagrams explain the four different cases in which the services of ARP	5M
		can be used.	
	b	Explain the various tools of links used in the internet for debugging.	5M
		OR	
5	W	rite short notes on the following	
	a	ATMARP.	5M
	b	ICMP Query messages.	5M
		UNIT-III	
6	a	Explain with an example the two-node loop problem. Also give the solutions to this	5M
		problem.	
	b	Describe the types of links defined in OSPF.	5M
		OR	
7	a	Explain with an example the concept of link state routing.	6M
	b	Describe the five different types of OSPF packets.	<b>4M</b>
		UNIT-IV	
8	Wl	hat is a TCP Connection? Explain in detail.	10M

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## OR

9	a	List the typical applications that can benefit more from services of UDP than from	5M	
		those of TCP.		
	b	Discuss TCP features in detail.	5M	
		UNIT-V		
10	W	hat is UDP? Explain UDP Packet in detail.	10M	
OR				
11	a	Give the format of UDP header and explain the significance of each field.	5M	
	b	Explain three-way handshaking for connection termination.	5M	

\*\*\*END\*\*\*