Reg. No:

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.Tech III Year II Semester Regular Examinations July-2021
INTERNETWORKING WITH TCP/IP
(Computer Science & Information Technology)

Time: 3 hours   Max. Marks: 60

PART-A
(Answer all the Questions **5 x 2 = 10** Marks)

1	a	What is IP address?	L1	2M
	b	Write short notes on ARP Package.	L1	2M
	c	Write short notes about: Static versus Dynamic Routing Tables.	L1	2M
	d	What is UDP?	L1	2M
	e	Write short notes about: Error Messages.	L1	2M

PART-B
(Answer all Five Units 5 x 10 = 50 Marks)

UNIT-I

2	a	Discuss the purpose of each layer in the TCP/IP protocol suite	L6	5M
	b	Explain the various types of options in IPV4 header	L2	5M

OR

3	a	Illustrate the significance of sub-network mask.	L2	5M
	b	Explain how classless addressing address the problem of address depletion	L2	5M

UNIT-II

4	a	Write short notes on the ATMARP.	L1	5M
	b	Write short notes on ICMP Query messages.	L1	5M

OR

5	a	With a neat diagram explain the significance of ATMARP packet	L1	5M
	b	List and describe the five types of error reporting messages in ICMPv4	L1	5M

UNIT-III

6	a	Explain with an example the concept of link state routing.	L2	5M
	b	Describe the five different types of OSPF packets	L2	5M

OR

7	a	Describe the types of links defined in OSPF.	L2	6M
	b	Explain with an example the two-node loop problem. Also give the solutions to this problem.	L2	4M

UNIT-IV

8		Draw and explain about TCP segment.	L2	10M

OR

9	a	List the typical applications that can benefit more from services of UDP than from those of TCP.	L1	5M
	b	Discuss TCP features in detail.	L6	5M

UNIT-V

10	a	Make a comparison between IPV4 and IPV6 headers.	L2	5M
	b	Explain ICMPV6 error-reporting messages.	L2	5M

OR

11	a	Explain congestion control in TCP.	L2	5M
	b	Describe the four TCP timers.	L6	5M

END