R20

Reg. No:

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.Tech II Year II Semester Regular Examinations October-2022
COMPUTER NETWORKS
(Common to CSE & CSM)

Time: 3 hours

Max. Marks: 60

(Answer all Five Units **5 x 12 = 60** Marks)

UNIT-I

1	a	Explain in detail about TCP/IP Network model.	L2	6M
	b	Define computer networks, Specify Computer Network Types.	L1	6M

OR

2	a	Write about various Network topologies.	L2	6M
	b	Describe about digital signals.	L3	6M

UNIT-II

3	a	Explain Cyclic Redundancy check method used for error detection.	L3	6M
	b	Write about the services provided by the Data link layer.	L2	6M

OR

4	a	Discuss HDLC Protocol with the elaborative explanation of its frames.	L3	6M
	b	Explain in detail about Controlled access protocols which are Used in MAC sub layer.	L3	6M

UNIT-III

5	a	Illustrate Link State Routing algorithm to find the route and ages of Routers.	L3	6M
	b	Sketch and explain in detail about IPV4 protocol.	L2	6M

OR

6	a	Write about BGP– Exterior Gateway routing protocol.	L2	6M
	b	Explain distance vector routing algorithm.	L3	6M

UNIT-IV

7	a	List and define the elements of transport layer.	L1	6M
	b	Write in detail about Remote Procedure Call.	L2	6M

OR

8	a	Explain the TCP protocol with neat sketch.	L2	6M
	b	Write in detail about performance issues of transport layer.	L2	6M

UNIT-V

9	a	Discuss about MIME Protocol with neat diagram.	L3	6M
	b	Describe SMTP protocol.	L3	6M

OR

10	a	Write in detail about DNS Name Space and Domain Resource records.	L2	6M
	b	Discuss about File Transfer Protocol with neat diagram.	L3	6M

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