O.P.Code: 20CI0614 | **R20** | **H.T.No.**

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.Tech. IV Year I Semester Regular & Supplementary Examinations December-2024
COMPUTER NETWORKS
(Computer Science & Information Technology)

Time: 3 Hours   Max. Marks: 60

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

UNIT-I

1	a	Define computer networks, Specify Computer Network Types.	CO1	L1	6M
	b	Briefly explain about different unguided media.	CO1	L2	6M
		OR			
2	a	Describe about digital signals.	CO1	L2	6M
	b	Explain in detail about Fiber optic cable.	CO1	L2	6M

UNIT-II

3	a	Describe flow control in data link layer.	CO2	L2	6M
	b	Explain in detail about Controlled access protocols which are Used in MAC sub layer.	CO2	L2	6M
		OR			
4	a	Describe about checksum in data link layer.	CO2	L2	6M
	b	Write about TDMA protocol.	CO2	L4	6M

UNIT-III

5	a	Explain distance vector routing algorithm.	CO3	L2	6M
	b	Elaborate Internet control protocols.	CO3	L4	6M
		OR			
6	a	Calculate the Shortest Path Algorithm considering an example.	CO3	L3	6M
	b	Describe the term internetworking in network layer.	CO3	L2	6M

UNIT-IV

7	a	Summarize congestion control in transport layer.	CO4	L2	6M
	b	Describe about TCP Connection Release.	CO4	L2	6M
		OR			
8	a	Elaborate each field of TCP segment header with neat diagram.	CO4	L5	6M
	b	Summarize congestion control in TCP.	CO4	L6	6M

UNIT-V

9	a	List out the four main properties of HTTP.	CO5	L1	6M
	b	Describe SMTP protocol.	CO5	L2	6M
		OR			
10	a	Write about static web pages.	CO5	L4	6M
	b	Summarize in detail about cookies.	CO5	L6	6M

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