R20

Code No: R20A0510

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

III B.Tech I Semester Supplementary Examinations, June 2025

Computer Networks

(ECE, CSE-AIML, CSE-DS, B.Tech-AIDS & B.Tech-AIML)

Roll No										

Time: 3 hours **Max. Marks: 70**

Note: This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing ONE Question from each SECTION and each Question carries 14 marks.

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		SECTION-I	BCLL	CO(s)	Marks
1	***A***	Explain the TCP/IP model in detail.	**L2**	**CO-I**	**[8M]**
	B	Illustrate the uses of network in brief.	**L2**	**CO-I**	**[6M]**
		OR			
2	***A***	Explain TCP/IP and OSI model in detail.	**L2**	**CO-I**	**[9M]**
	B	Illustrate guided transmission media in brief.	**L2**	**CO-I**	**[5M]**
		SECTION-II			
3	***A***	Explain the Error correction and detection techniques in DLL.	**L2**	**CO-II**	**[7M]**
	B	Summarize Ethernet Mac Sub layer with a neat sketch.	**L2**	**CO-II**	**[7M]**
		OR			
4	***A***	Explain CSMA/CA in detail.	**L2**	**CO-II**	**[7M]**
	B	Illustrate elementary Data Link Layer Protocols in brief	**L2**	**CO-II**	**[7M]**
		SECTION-III			
5	***A***	Compare in between connection less and connection oriented networks.	**L2**	**CO-III**	**[8M]**
	B	Explain in detail about ARP in network layer.	**L2**	**CO-III**	**[6M]**
		OR			
6	***A***	Compare and contrast in between Sub netting and Super Netting.	**L2**	**CO-III**	**[6M]**
	B	Explain different types of routing algorithms in brief.	**L2**	**CO-III**	**[8M]**
		SECTION-IV			
7	***A***	List out the services provided by transport layer in detail	**L4**	**CO-IV**	**[7M]**
	B	Explain the connection release process of TCP in brief	**L2**	**CO-IV**	**[7M]**
		OR			
8	***A***	Explain in detail about Error and Flow control in transport layer.	**L2**	**CO-IV**	**[7M]**
	B	Illustrate the TCP Congestion Control Algorithm in brief.	**L2**	**CO-IV**	**[7M]**
		SECTION-V			
9	***A***	What are the different application layer protocols.	**L1**	**CO-V**	**[7M]**
	B	Discuss in detail about email in application layer.	**L6**	**CO-V**	**[7M]**
		OR			
10	***A***	Explain in detail about DNS.	**L2**	**CO-V**	**[7M]**
	B	Illustrate about TELNET in brief.	**L2**	**CO-V**	**[7M]**

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