MARRI LAXMAN REDDY
INSTITUTE OF TECHNOLOGY AND MANAGEMENT
(AN AUTONOMOUS INSTITUTION)
(Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad)

MLRS

Accredited by NBA and NAAC with 'A' Grade & Recognized Under Section2(f) & 12(B)of the UGC act,1956

II B.Tech I Sem Regular End Examination, February-2022
Computer Networks
(CSC)

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

Note: 1. Question paper consists: Part-A and Part-B.
2. In Part – A, answer all questions which carries 20 marks.
3. In Part – B, answer any one question from each unit.
Each question carries 10 marks and may have a, b as sub questions.

PART- A
(10*2 Marks = 20 Marks)

1.	a)	Name the four basic network topologies, and cite an advantage of each type?	2M	CO1	BL1
	b)	What is the difference between a port address, a logical address, and a physical address?	2M	CO1	BL1
	c)	What is cyclic redundancy check (CRC)?	2M	CO2	BL1
	d)	What is IEEE 802.3?	2M	CO2	BL1
	e)	Justify Internetwork.	2M	CO3	BL1
	f)	Give the need of ICMP protocol.	2M	CO3	BL1
	g)	Describe TCP segment.	2M	CO4	BL1
	h)	What is congestion control?	2M	CO4	BL1
	i)	What is DNS service?	2M	CO5	BL1
	j)	Discuss SMTP.	2M	CO5	BL1

PART- B
(10*5 Marks = 50 Marks)

2	a)	Enumerate the differences between OSI model and TCP/IP model?	5M	CO1	BL5
	b)	Explain the different types of transmission modes?	5M	CO1	BL4

OR

3	What is multiplexing? Explain the different types of multiplexing techniques? What are circuit switched networks? Explain its working?	10M	CO1	BL4

4	a)	Define error detection and describe the several common techniques of achieving it?	5M	CO2	BL2
	b)	Discuss about data link layer in HDLC?	5M	CO2	BL2

OR

5	Explain the carrier sense multiple access protocols?	10M	CO2	BL4

6	a)	Describe the strategies of transition from IPv4 to IPv6?	5M	CO3	BL2
	b)	Explain the working of IGMP protocol?	5M	CO3	BL4

OR

7	With an example network, explain the Distance Vector routing algorithm?	10M	CO3	BL4

8	a)	Explain the services provided by transport layer?	5M	CO4	BL4
	b)	Discuss about congestion control in transport layer?	5M	CO4	BL2

OR

9	Explain the features, services and operation of UDP?	10M	CO4	BL4

10	a)	Discuss the working of domain naming system?	5M	CO5	BL2
	b)	Write short notes on file transfer protocol(FTP)?	5M	CO5	BL1

OR

11	In detail, explain the working of simple network management protocol(SNMP)?	10M	CO5	BL4

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