MARRI LAXMAN REDDY
INSTITUTE OF TECHNOLOGY AND MANAGEMENT
(AN AUTONOMOUS INSTITUTION)
(Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad)
Accredited by NBA and NAAC with 'A' Grade & Recognized Under Section2(f) & 12(B)of the UGC act,1956

MLRS

III B.Tech I Sem Supply End Examination, August 2022
Computer Networks
(CSE)

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)	What are the applications of Internet?	2M	CO1	BL1
	b)	List out the different guided transmission media used in computer networks?	2M	CO1	BL1
	c)	What are the issues in data link layer?	2M	CO2	BL1
	d)	Enumerate the difference between error correction and error detection?	2M	CO2	BL3
	e)	Classify the network routing algorithms?	2M	CO3	BL2
	f)	Why does congestion occur in networks?	2M	CO3	BL1
	g)	What is the need of transport layer?	2M	CO4	BL1
	h)	Why user datagram protocol is connection less?	2M	CO4	BL1
	i)	What is WWW?	2M	CO5	BL1
	j)	What is the role of DNS in the operation of Internet?	2M	CO5	BL1

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

2	a)	Describe wireless transmission media?	5M	CO1	BL2
	b)	Explain the various components(both hardware and software) used in computer networks?	5M	CO1	BL4

OR

3		Illustrate TCP/IP reference model with a neat diagram?	10M	CO1	BL4

4	a)	Explain the dynamic channel allocation in LANs and MANs?	5M	CO2	BL4
	b)	Explain the working of sliding window protocol using go-back-N?	5M	CO2	BL4

OR

5		In detail, explain the various ALOHA protocols?	10M	CO2	BL4

6	a)	Briefly explain the features of network layer in the Internet?	5M	CO3	BL4
	b)	Elaborate the general principles of congestion control?	5M	CO3	BL5

OR

7	Using an example network diagram, explain distance vector routing algorithm?	10M	CO3	BL4

8	a)	Explain the connection establishment and release mechanisms in transport layer?	5M	CO4	BL4
	b)	Draw and explain the header format for a transmission control protocol.	5M	CO4	BL4

OR

9	What are the elements of transport protocols? Compare TCP with UDP?	10M	CO4	BL1

10	a)	Describe the working of name servers in domain name system?	5M	CO5	BL2
	b)	Explain the video compression techniques?	5M	CO5	BL4

OR

11	With a neat block diagram, explain the components in the architecture of an electronic mail system?	10M	CO5	BL4

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