Course Code: 2050511 Roll No: MLRS-R20



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

III B.Tech I Sem Regular End Examination, December 2022 Computer Networks

(CSD/CSE/CSI/CSM/IT)

Time: 3 Hours. Max. Marks: 70

Note: 1. Question paper consists: Part-A and Part-B.

M = 110010101100101010, G = 1010

b) Explain how slotted aloha offers better efficiency. Derive an

Show the working on this data

expression for it

- 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 factors to be considered while selecting a transmission media?	2M	CO1	BL1			
	b)	What are the advantages and disadvantages of wave Division Multiplexing?	2M	C01	BL1			
	c)	Mention some of the physical properties of Ethernet.	2M	CO2	BL1			
	d)	Why do we need even parity bit?	2M	CO2	BL1			
	e)	What is count to infinity problem?	2M	CO3	BL1			
	f)	What is tunneling?	2M	CO3	BL1			
	g)	Why TCP services are called Stream delivery services?	2M	CO4	BL1			
	h)	Name the device which is used in the transport layer.	2M	CO4	BL1			
	i)	What are the properties of HTTP request?	2M	CO5	BL1			
	j)	What are the functions of Application layer?	2M	CO5	BL1			
		PART- B						
		(10*5 Marks = 50 Mark						
2	a)	Explain about the coaxial cable with neat sketch	7M	C01	BL4			
	b)	What are the 4 main components of networks?	3M	CO1	BL1			
	-,	OR						
3	a)	Explain the different types of connections in computer networks	5M	CO1	BL4			
	b)	Compare and contrast between FDM and TDM	5M	CO1	BL2			
	J)	dempare and contract between 1 211 and 121.						
4	a)	Explain the CRC coding mechanism considering following message and generator polynomial	5M	CO2	BL4			

5M

CO2

BL4

		OR			
5	a)	Explain about the working principle of sliding window protocol in data link layer	5M	CO2	BL4
	b)	Explain the frame format of IEEE 802.5	5M	CO2	BL4
	a)	Explain about the Link State routing protocol	5M	CO3	BL4
6	b)	What is the need for ICMP? Mention any four ICMP messages and their purpose	5M	CO3	BL1
		OR			
7	a)	Explain the different types of Internetworking	5M	CO3	BL4
,	b)	Differentiate between IPv4 and IPv6	5M	CO3	BL2
8	a)	Explain about the token bucket algorithm	5M	CO4	BL4
U	b)	Explain the services provided by the Transport layer	5M	CO4	BL4
		OR			
	a)	Explain about the operation of UDP	5M	CO4	BL
9	b)	Explain the steps involved in three way handshaking mechanism to establish the connection in TCP	5M	CO4	BL4
10	a)	List and explain the services provided by DNS	5M	CO5	BL4
10	b)	Explain the Simple Network Management Protocol	5M	CO5	BL4
		OR			
	a)	Explain in detail about function and structure of e-mail protocol	5M	CO5	BL4
11	b)	Describe the file transfer protocol with a neat diagram	5M	CO5	BL2

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CO - Course Outcome

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BL - Blooms Taxonomy Levels

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