Code No.: IT503PC

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H.T.No.

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CMR ENGINEERING COLLEGE: : HYDERABAD UGC AUTONOMOUS

III-B.TECH-I-Semester End Examinations (Supply) - May- 2023 DATA COMMUNICATION & COMPUTER NETWORKS

(IT)

	(II) [Max. Marks: 70]	
11 me: 3 Hoursi		arks: /uj
TAT 4	This question paper contains two parts A and B. Part A is compulsory which carries 20 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Ea	ch question
	carries 10 marks.	(20 Marks)
	PART-A	(20 Mai Ks)
	List the different types of topologies.	[2M]
1. a)	4 CCD/ID 1	[2M]
b)	1 - 1 flow control in data link laver	[2M]
c)	List the significance of a checksum.	[2M]
d)	What are the responsibilities of network layer?	[2M]
e)		[2M]
f)	— 11. J to doctination 19Ver	[2M]
g)		[2M]
h)	a eve 1 in HTTD	[2M]
i)	1 110	[2M]
j)	With is seed to blow.	(50.75.7.)
	PART-B	(50 Marks)
2.	Explain about the internet protocol stack.	[10M]
2.	OR	[MO1]
3.	Describe the TCP/IP reference model.	[10M]
		[10M]
4	Explain the data link layer protocols with pipelining. How do they differ?	[TOWI]
•	OR	1000111, [10M]
5	. Write algorithm for computing the CRC checksum and given the data bits	[000][1, [10][1]
Ū	compute the hamming bits assuming even parity.	
		[10M]
6	. Describe the concept of virtual circuit network and datagram network.	[10141]
٦	OR .	[10M]
7	. Draw and explain about the format of Ipv4 packet.	[10141]
		[10M]
. 8	Describe in detail about TCP datagram format.	[10111]
	OR	[10M]
ç	Explain about closed-loop congestion control in transport layer.	. [10112]
		[10M]
10). Elaborate the electronic mail in the internet (e-mail).	, [1011]
	OR OR	[10M]
1	. What is SNMP? Discuss about the functions of SNMP.	[]