

Code No: 5C448



(An Autonomous Institution)

Regulations: **A15**

CO(s)

Marks

Date: 17-August - ZUZ4 (FN)

B.Tech II-Year II- Semester External Examination, August - 2024 (Supplementary) DATA COMMUNICATIONS (CSE and IT)

Time: 3 Hours Max.Marks:75

Note: a) No additional answer sheets will be provided.

- b) All sub-parts of a question must be answered at one place only, otherwise it will not be valued.
- c) Missing data can be assumed suitably.

Bloom's Cognitive Levels of Learning (BCLL)

Remember	L1	Apply	L3	Evaluate	L5
Understand	L2	Analyze	L4	Create	L6

Part - A	Max.Marks:25
ANSWER ALL QUESTIONS	

		BCLL	CO(S)	warks
1	Recall the definition of network.	L1	CO1	[2M]
2	Distinguish between Baseband Transmission and broadband transmission.	L1	CO2	[2M]
3	What is unguided media?	L1	CO3	[2M]
4	What is hamming distance? What is minimum hamming distance?	L1	CO4	[2M]
5	What is random access?	L1	CO5	[2M]
6	What is the difference between hard handoff and soft handoff?	L2	CO6	[3M]
7	Draw the TCP/IP protocol suite.	L1	CO1	[3M]
8	Define switch and Describe the need for switching.	L2	CO3	[3M]
9	Explain about fast ethernet.	L2	CO6	[3M]
10	Define framing and the reason for its need.	L1	CO4	Ī3MĪ

Part - B Max.Marks:50

ANSWER ANY FIVE QUESTIONS. EACH QUESTION CARRIES 10 MARKS. BCLL

11.	,	Discuss about brief history of Internet. Explain OSI reference model.	L2 L2	CO1	[5M] [5M]
12.	a) b)	What are the different transmission impairments? Explain. Write the advantages and disadvantages of digital transmission.	L2 L3	CO2 CO2	[5M] [5M]
13.	,	How datagram networks operates in transmission media? Discuss in detail about virtual circuit networks.	L3 L2	CO3	[5M] [5M]
14.	a)	Discuss in detail about High level data link control (HDLC) protocol.	L2	CO4	[5M]

	,	Discuss in detail about High level data link control (HDLC) protocol. what are the services provided, frame format, transition states, PPP stack of point-to-point protocol.			[5M] [5M]
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15.	,	Explain in detail about gigabit ethernet. Write a short note on IEEE 802.11 standard.	CO5 CO5	[5M] [5M]
16.	•	Discuss in detail about backbone networks. Write a short note on ATM LANs.	 CO6	[5M] [5M]

	D)	Write a short note on ATM LANS.	L2	000	[DIVI]
17.	b)	What is the role of addressing in data communications? Illustrate about Transmission impairment. Explain the concept of guided media.	L2 L3 L2	CO1 CO2 CO3	[4M] [3M] [3M]
40	- \	Differentiate Naiseless abounds and Naise abounds		CO4	F 4 B 43

18.	a)	Differentiate Noiseless channels and Noisy channels.	L2	CO4	[4M]
	b)	What is working principle of Bluetooth?	L2	CO5	[3M]
	c)	What is the function of ATM?	11	CO6	[3M]