

Code No:7CC57



(An Autonomous Institution)

Regulations: A18

Date: 02-Sept-zoz ((N)

B.Tech II-Year II- Semester External Examination, Aug/Sept-2021 (Regular) DATA COMMUNICATIONS (CSE and IT)

Time: 3 Hours Max.Marks:70

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.

ANSWER ANY 5 OUT OF 8 QUESTIONS. EACH QUESTION CARRIES 14 MARKS.

Bloom's Cognitive Levels of Learning (BCLL)

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

			BC LL	CO(s)	Marks
1.	a)	Explain TCP/IP protocol suite with neat Diagram.	L2	CO1	[7M]
	b)	Classify the networks based on coverage.	L3	CO1	[7M]
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2.	a) b)	Write short notes on spread spectrum. Write a short note on FDM.	L1	CO2	[7M] [7M]
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3.	a)	Explain Characteristics of Twisted pair with neat diagrams.	L2	CO3	[7M]
	b)	Discuss structure of Packet switch with necessary diagrams.	L2	CO3	[7M]
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4.	a)	Define Linear Block code. Illustrate simple parity check code with an example.	L4 L6	CO4	[7M]
	b)	Explain in Brief HDLC protocol with neat diagrams.	LO	CO4	[7M]
5.	a)	Write short notes on Wired LAN technologies.	L1	CO5	[7M]
٥.	b)	Compare Fast Ethernet and Gigabit Ethernet characteristics.	L5	CO5	[7M]
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6.	a)	Discuss in brief Spanning Tree algorithm.	L2	CO6	[7M]
	b)	Explain working of ATM network in brief.	L6	CO6	[7M]
7.	۵)	Discuss Layered Architecture.	L2	CO1	[5M]
1.	a) b)	Compute minimum bandwidth if 5 channels each of 100 KHz bandwidth to be	L3	CO2	[5M]
	D)	multiplexed. Guard band between two channels is 10 KHz.			[Olvi]
	c)	Write a short note on Infrared waves.	L1	CO3	[4M]
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8.	a)	Differentiate between Go Back and Selective Repeat ARQ.	L4	CO4	[5M]
	p)	What is slotted Aloha? Derive expression for Throughput of slotted Aloha.	L6	CO5	[5M]
	c)	Describe various types of Backbone networks.	L2	CO6	[4M]