



(An Autonomous Institution)

Regulations: A15

Code No: 5C448 Date: 10-A Date: 1

B.Tech II-Year II- Semester External Examination, July/August-2022 (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.

ANSWER ANY 5 OUT OF 8 QUESTIONS. EACH QUESTION CARRIES 15 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) b)	Discuss the TCP/IP protocol suite on the basis of protocol layering principle. Write a short note on addressing.		CO1	[8M] [7M]
2.	a)	What are the parameters influence the network performance? Explain in detail.	L2	CO2	[8M]
	b)	Describe the properties of an Analog signal.	L3	CO2	[7M]
3. a)		Explain the difference between step index and graded index fiber with figures. Compare twisted pair, Co-axial cable and fiber optic cable.		CO3	[8M]
b)	CO3			[7M]	
4.	a)	Describe the HDLC.	L3	CO4	[8M]
	b)	Explain the Point-to-Point Protocol.	L2	CO4	[7M]
5.	۵۱	Explain:	L1	CO5	CON 41
	a) b)	Fast Ethernet. Giga bit Ethernet.	L1	CO5	[8M] [7M]
6.	a)	Explain about ATM Networks.	L2	CO6	[8M]
0.	b)	Describe about the virtual LANs.	L3	CO6	[7M]
7.	a)	Write functions of each layer in OSI Model.	L1	CO1	[8M]
	b)	Differentiate between Analog & Digital Transmission.	L3	CO2	[7M]
8.	a)	A (7,4) hamming code received as 1010111. Determine the correct code when even parity is there.	L5	CO4	[8M]
	b)	Explain about the Frame-relay networks.	L2	CO5	[7M]