Name. _____	Printed Pages:01
Student Admn. No.: _____	

School of SCSE

Backlog Examination, June 2023

[Programme: B.Tech] [Semester: IV] [Batch:]

Course Title: DATA COMMUNICATION & NETWORKING	Max Marks: 100
Course Code: BCSE2012	Time: 3 Hrs.

Instructions:	1. *All questions are compulsory.*
	2. *Assume missing data suitably, if any.*

		K Level	COs	Marks
SECTION-A (15 Marks)		**5 Marks each**		
1.	Define topology and explain the advantages and disadvantages of Bus, Star and Ring topology.	K2	CO1	5
2.	List any 5 applications of Data Communication & Networking. How it is important?	K1	CO2	5
3.	Define ASK, FSK & PSK with one example.	K2	CO3	5
SECTION-B (40 Marks)		**10 Marks each**		
4.	Analyze the various Manchester Encoding techniques with proper applications.	K1	CO4	10
5.	Build with suitable diagrams, discuss in detail the concept of Packet switching and Circuit switching.	K3	CO1	10
6.	Examine the various difference between OSI Model and TCP/IP Protocol Suit.	K3	CO2	10
7.	Define Multiplexing and Explain different types of Multiplexing. OR Discuss the process of analog to digital data communication with suitable examples and figures.	K4	CO3	10
SECTION-C (45 Marks)		**15 Marks each**		
8.	Analyze Pulse Code Modulation (PCM) and Delta Modulation (DM) with the help of figure.	K3	CO3	15
9.	Explain the three Different Transmission Techniques. Also, write short notes on DSL and Dial up modem.	K6	CO4	15
10	Justify the importance of Flow and Error Control protocols. Explain its types. OR Compare various Application Layer protocols with suitable example.	K5	CO5	15