

[M19 CS 1101]
I M. Tech I Semester (R19) Regular Examinations
DIGITAL DATA COMMUNICATIONS
DEPARTMENT OF ELECTRONICS & COMMUNICATIONS ENGINEERING
MODEL QUESTION PAPER

TIME: 3Hrs.
Max. Marks: 75 M

Answer **ONE Question** from **EACH UNIT**.
 All questions carry equal marks.

			CO	KL	M
		UNIT-I			
1.	a).	Explain the principle of QAM with the help of a neat diagram.	1	5	8
	b).	What is a constellation diagram? Explain the constellation diagram of 16QAM.	1	1	7
		OR			
2.	a).	Explain the OSI model for networking in brief. How does it differ from TCP/IP model?	9	5	8
	b).	What are different types of digital data transmission modes? Explain with examples.	4	2	7
		UNIT-II			
3.	a).	With the help of a neat diagram, explain the DTE-DCE interface.	2	5	8
	b).	Explain the various network topologies and compare the performance of each	3	5	7
		OR			
4.	a).	What are the various types of error correction codes? Explain any one.	6	2	8
	b).	Compare the synchronous and asynchronous data link protocols.	6	5	7
		UNIT-III			
5.	a).	What are the different types of packet switching? Explain.	8	2	8
	b).	Explain the architecture of IEEE 802.6.	9	2	7
		OR			
6.	a).	What are the different functions of bridges in the network? Explain various types of bridges used in the network.	7	1,5	8
	b).	Compare the time division and frequency division multiplexing techniques.	7	5	7
		UNIT-IV			
7.	a).	What is the need for multiplexing and explain various types of multiplexing techniques?	1	2	8
	b).	Explain various LAN topologies.	1	5	7
		OR			
8.	a).	Compare various switching techniques in detail.	8	5	8
	b).	Explain the function of various internetworking devices.	8	5	7
		UNIT-V			
9.	a).	Briefly explain various multiple access techniques.	1	5	8
	b).	What are the demerits in OFDMA? Explain how they can be overcome?	10	2	7
		OR			
10.	a).	Explain the principle and working advantages and applications of	10	5	8

		CDMA.			
	b).	Explain the principle and working of CSMA/CA technique in detail.	7	2	7

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-KNOWLEDGE LEVEL

M-MARKS

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