U.S.N.										

B.M.S. College of Engineering, Bengaluru-560019

Autonomous Institute Affiliated to VTU

July 2023 Semester End Main Examinations

Programme: B.E. **Semester: VI**
Branch: Electronics and Communication Engineering **Duration: 3 hrs.**
Course Code: 16EC6DCCCN **Max Marks: 100**
Course: Computer Communication Networks **Date: 05.07.2023**

Instructions: 1. Answer any FIVE full questions, choosing one full question from each unit.
2. Missing data, if any, may be suitably assumed.

Important Note: Completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Revealing of identification, appeal to evaluator will be treated as malpractice.

		UNIT - I	*CO*	*PO*	Marks
1	a)	Define a Computer Network. Describe the network criteria, its physical structures and categories of networks.	*CO1*	*PO1*	**10**
	b)	Mention the layers of an OSI-ISO model and explain briefly about the layers and the protocols in each layer.	*CO1*	*PO1*	**10**
		UNIT - II			
2	a)	Compare Wired and Wireless transmission media, justify the significance of twisting in twisted pair cable.	*CO2*	*PO2*	**10**
	b)	Describe the different switching techniques in detail.	*CO1*	*PO1*	**10**
		UNIT - III			
3	a)	With the help of a diagram describe the encoder and decoder for simple parity-check code.	*CO1*	*PO1*	**10**
	b)	Explain the Stop and Wait ARQ in detail.	*CO1*	*PO1*	**10**
		OR			
4	a)	Explain Go Back N ARQ in detail.	*CO1*	*PO1*	**10**
	b)	Illustrate Bit and Byte Stuffing and destuffing in detail.	*CO1*	*PO1*	**10**
		UNIT - IV			
5	a)	Describe the procedure for pure ALOHA protocol in detail.	*CO1*	*PO1*	**10**
	b)	Categorise the standard Ethernet and also summarise the Standard Ethernet implementations.	*CO2*	*PO2*	**10**
		OR			

	6	a)	Describe the CSMA/CA with a flow diagram. List out the advantages over other techniques.	*CO2*	*PO2*	**10**
		b)	Categorise the Fast Ethernet and also summarise the Standard Ethernet implementations.	*CO2*	*PO2*	**10**
			UNIT - V			
	7	a)	Explain the five categories of connecting devices in a network in detail.	*CO1*	*PO1*	**10**
		b)	Describe the ATM and Frame Relay in detail.	*CO1*	*PO1*	**10**

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