

U.S.N.

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

Autonomous Institute Affiliated to VTU

August 2024 Semester End Main Examinations**Programme: B.E.****Branch: Medical Electronics Engineering****Course Code: 23MD4PCDCH****Course: Data Communication in Healthcare****Semester: IV****Duration: 3 hrs.****Max Marks: 100**

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.			MODULE - I	CO	PO	Marks
	1	a)	Identify and explain the various network criteria.	CO1	PO1	06
		b)	Briefly discuss the functions of various layers of the OSI model.	CO1	PO1	14
			MODULE - II			
	2	a)	Summarize the unicast routing protocol with a neat figure.	CO1	PO1	10
		b)	Enumerate the multicast applications.	CO1	PO1	10
			OR			
	3	a)	Summarize the various categories of open loop congestion control.	CO1	PO1	10
		b)	Elaborate on the role of browser and server.	CO1	PO1	10
			MODULE - III			
	4	a)	Specify the role of each field in an 802.3 MAC frame.	CO2	PO1	10
		b)	Explain the CSMA/CA as used in wireless LANs with a neat flowchart.	CO2	PO1	10
			MODULE - IV			
	5	a)	Identify the central systems in the architecture of GSM and explain it briefly.	CO3	PO1	10
		b)	Mention and explain the various fields that uses telemedicine.	CO3	PO1	10
			OR			
	6	a)	Illustrate the transmission of analog physiological signals over telephonic line.	CO3	PO1	10
		b)	Summarize the advantages and disadvantages of CDMA.	CO3	PO1	10
			MODULE - V			
	7	a)	Enumerates the challenges in healthcare mobile app development.	CO4	PO1	06
		b)	Discuss the different types of mobile healthcare apps.	CO4	PO1	08
		c)	Mention the future trends in healthcare mobile app development.	CO4	PO1	06
