		CBCS SCHEME		
USN		Adrer, Mangalore i	17EC64	
Sixth Semester B.E. Degree Examination, Feb./Mar. 2022				
Computer Communication Networks				
Time: 3 hrs. Max. Marks: 100				
Note: Answer any FIVE full questions, choosing ONE full question from each module.				
		<u>Module-1</u>		
1	a. 1	Explain components of data communication.	(06 Marks)	
	о. с.	Briefly explain the following : i) ARP ii) OSI versus TCP/IP.	(06 Marks) (10 Marks)	
		OR	(101)	
2	a.	Define farming. Explain role of bit stuffing in a farming.	(10 Marks)	
	b.	With a neat diagram, explain encapsulation and decapsulation protocol layering.	(10 Marks)	
		Module-2		
3	a.	A slotted ALOHA networks transmits 200 bit frame using a shared channel with a	1 200 Kbps	
		band width. What is the through put if the system produces,		
		i) 1000 frames produces		
		iii) 250 frames per second.	(10 Marks)	
	b.	Explain the relationship of the IEEE project 802 standard to the TPC/IP protocol s	uite.	
			(10 Marks)	
4	а	What is controlled access? Explain methods of reservation, polling and token pass	ino	
•	u.	what is controlled access. Explain methods of foot, allon, poining and token pass	(10 Marks)	
	b.	Explain characteristics and addressing schemes of standard Ethernet.	(10 Marks)	
	Module-3			
5	a. 1	Explain connecting devices : Hubs and Link Layer Switches.	(10 Marks)	
	D.	Describe architectural and MAC layers leatures of IEEE 802.11 project.	(10 Marks)	
6	я	UR Explain classful and classes addressing with example	(10 Marks)	
U	a. b.	What are the characteristic can be used to group stations in a VLAN? Explain each	(10 Marks) 1.	
			(10 Marks)	
Module-4				
7	a.	Draw and explain distance vector routing.	(10 Marks)	
	υ.	what are different types of moone iP, explain them in details, using data transit	(10 Marks)	
		OR	· · · ·	
8	a.	Explain the internal structure of unicast routing protocols.	(10 Marks)	
	b.	What is the purpose of designing ICMPv4? And also discuss about types of debug	gging tools	
		In ICIVIPV4.	(10 Marks)	
9	a.	With a neat diagram, explain TCP segment format.	(10 Marks)	
,	ш. b.	What are the services provided by UDP? Mention any four typical application	s of UDP.	
		Discuss them.	(10 Marks)	

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CENTRAL

OR

What are the different services provided by the transport layer? Discuss them. (10 Marks) Write outline and explain send window and receive window for Go back N protocol.(10 Marks) b.

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fImportant Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. 2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice. Discuss them. 10 a.