CBCS SCHEME

USN			5EC64
		Sixth Semester B.E. Degree Examination, Dec.2023/Jan.2024	
		Computer Communication Networks	
Tin	ne: 3	3 hrs. Max. Mark	s:80
	N	Note: Answer any FIVE full questions, choosing ONE full question from each modul	le.
		Module-1	
1	a.	TCD/ID was to all with west discourse (0)	8 Marks)
-	b.	11 11 11 11 11 11 11 11 11 11 11 11 11	4 Marks)
	c.	Explain briefly four physical topologies of a network. (04)	4 Marks)
		OR A	
2	a.	T. I. ADD a surface and ADD monitor former with a most discream.	8 Marks)
	b.	- I I COLC COOD 1	
		protocol. (08	8 Marks)
		Module-2	
3	a.	1 1 Oll 1 2001 is Commission of the angle with a 200 lehrer han	d width
		Find the through put of pure and slotted ALOHA if the system produces 500 frame per	second
	b.		6 Marks) ngth
		of frame?	7 Marks)
	c.	100	
		4A:30:10:21:10:1A 47:20:1B:2E:08:EE	
			3 Marks)
			21
		OR	
4	a.		5 Marks)
	b.		6 Marks)
	c.	In the standard Ethernet with the transmission rate of 10 Mbps, length of cable is 250	0mt and
	450	frame size is 512 bits. The propagation speed of a signal in a cable is 2×10^8 m/s. Find ef	fficiency
		of standard Ethernet. (05	5 Marks)
		Module-3	
5	a.	Will the state of	4 Marks
-	b.	What is hidden station problem in wireless LAN's? Give solution for it. (00)	6 Marks
	c.	Describe VLAN. How is it used in grouping of stations? (00)	6 Marks

OR

a. Explain the occupation of the address space in classful addressing. (04 Marks)
b. A block of addresses is granted to a small organization. We know that one of the addresses is 167·199·170·82/27. What is the first address, last address and total number of address of the block? (06 Marks)

c. With a neat diagram, explain how can a NAT help in address translation. (06 Marks)



Module-4 (08 Marks) Explain IPV4 Datagram format. (08 Marks) Explain with an example distance vector routing algorithm. OR Explain with a neat diagram the three phases in Mobile host communication. (08 Marks) b. Explain with an example link state routing and also apply Dijksthra algorithm to find least (08 Marks) cost path tree. Module-5 Explain connection less and connection oriented service showing the movement of packets 9 (08 Marks) using time line. Explain why the size of the send window in Go back N must be less than 2^m? (08 Marks) Explain TCP connection establishment and connection termination using three way hand 10 (10 Marks) shaking. Describe slow start algorithm for handling congestion in TCP. (06 Marks)