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Academic year 2023-2024 (Even Sem)

			COMPUTER	DEPARTMENT OF SCIENCE AND ENGINEERING				
		Date	June 2024	Maximum Marks	50			
	Course Code		CY245AT	Duration	90 Min	90 Minutes		
		Sem	IV					
		1	Computer Networ	rks (Common to CS, IS, CD, AI & CY)		ВТ		
Sl	. No.			PART-B	M	CO		
1	(a)	Answer 1. 2. 1 3. 4. 1	the following When frame leaves A tow destination MAC of the fr Mention any one probable his network if the frame it Assume R1 does not know now does it figure out the If the frame received by R now will R1 know the frame	eth1 IP: 192.168.12.101 MAC: 32:30:cd:2e:0b:3c IP: 192.168.12.45 MAC: 3d:20:01:21:a3:0d 92.168.4.200 : 32:30:cd:0b:1c:b4 rards destination B, what will be the rame? e protocol at datalink and physical layer of s bit oriented framing protocol. w the MAC of R2 but knows only IP address, MAC of R2? 21 from A has error introduced in the way,	10	4	2	
2	(a)			d Wait Protocol. List the disadvantage of this	10	3	1	
3	(a)	Following sender a		-	10	4	5	
4	(a)	_	-	A (Carrier Sense Multiple Access). Illustrate ram and its two major problems.	10	3	1	

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5	(a)	Process-1 ROUTER-2 ROUTER-5 ROUTER-6 PC-2						6+2+	4	4
		Router-1's table initially	Router-3's	table	Router-5's	table				
		Destination Line	Destination	Line	Destination	Line				
		R-1	R-1	R-1	R-1	R-3				
		R-2 R-2	R-2	R-4	R-2	R-4				
		R-3 R-3	R-3	-	R-3	R-3				
		R-4 R-2	R-4	R-5	R-4	R-4				
		R-5 R-3	R-5	R-5	R-5					
		R-6 R-3	R-6	R-5	R-6	R-6				
		The initial network and routing table is given.								
		1. Explain Store and Forward								
		2. If router 2 fails or crashes, s			_					
		changes. How is the next be	st path/hop	identif	fied to popu	ılate the	table?			
		3. Does all datagrams in the above network take same path? Justify your answer.								

COURSE OUTCOMES:

CO1: Apply the algorithms/techniques of routing and congestion control to solve problems related to Computer Networks.

CO2: Analyse the services provided by various layers of TCP/IP model to build effective solutions

CO3: Design sustainable networking solutions with societal and environmental concerns by engaging in Lifelong learning for emerging technology.

CO4: Exhibit Demonstrate the solutions using various algorithms/protocols available to address networking issues

CO5: Using modern tools by exhibiting team work and effective communication network configuration, protocol usage and performance evaluation in networks.

COs/BTL	CO1	CO2	CO3	CO4	CO5	L1	L2	L3	L4
Marks	20	10		10	10			20	30