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Academic year 2024-2025 (Odd Sem)

			DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING				
			25th November 2024 Maximum Marks	10+	50		
-		Date		and the last of th		linute	S
Cour		rse Code	CDZJZIA	and the same of the same of	and the second second	1111410	
		Sem	V Faculty: CNS/PD/SB/HR/P1//PHM	'V)	1 4141		
			Database Management Systems (Common to CS, IS, CD, AI & C	,1)	M	ВТ	CO
S	I.No		PART-A	2"	2	L3	1
1		Identify t	two tasks performed by "actors on the scene" and "workers behind the scene	3	2	LO	
	www.manushi-isasimo/lista/area	in a datal	pase environment. Provide examples of job roles for each category.	ion	2	L3	1
2.		Which da	ata model balances ease of understanding for end users and its implementation		_	LJJ	•
		on compi	uter systems? Give an example.		2	L3	2
3.		Given the	e scenario of a Library Management system, Transaction record entity that		_		
		represent	s the details of books issued to members can be treated as a weak entity.				
		Justify th	e statement with reason for weakness.		2	L2	2
4.			iate between multivalued and composite attributes. Give an example		_		
		represent	ation for each.	en	2	L2	1
5. Sl. No.			ne importance of NULL value. Mention two instances where a value of giv		_		
		attribute	can be NULL. PART-B		M	BT	CC
					10	T.0	1
1		For a rela	ationship type R among n entity types $E1, E2,, En$ mathematically define	ıe:	10	L2	1
		i)	Relationship Set				
		ii)	Relationship instances				
-		Also dete	rmine using an example,				
		iii)	Degree of relationship type				
		iv)	Relationship as attribute				
		v)	Role names in Recursive Relationship.		06	L2	1
2	(a)	With the	help of a neat diagram, explain the three schema architecture.		06 04	L2	1
	(b)	Using the	above architecture, outline the types of data independence.		06	L2	_
3	(a)	T 1	-l etamistics of database approach	otion	04	L2	- 1
Contract of the	(b)	Differenti	ate between the total participation constraint and partial participation	ation	04		
			Give evennle		10	L4	
		A Farmer	Consumer Management system needs to be developed. The main obje	CLIVE	10	124	
		of this project is to build an application which will help farmers from Indian villages to					
		call their	products to different cities. Farmers wishing to avail the facility can dif	rectly			
		register in the system and sell their product. On the other side, consumers and					
		register in	rs from urban settlements can procure their products from such agricu	ltural			
		wholesale	The validity of all such transactions is tabulated for all future references.				
		colonies.	The validity of all such transactions is tabulated for all fatale references				
			ents could be but not limited to				
		 Upload 	of the crop to be sold.				
		 Display: 	s a list of the crops and their prices by that farmer.				
			g any of the produce.				
		Oldering	land of the produce.				
		• Update	logs and transactions on sale.	me of			
		The qua	antity and price of all the produce must be known to the farmer at the ti				
		uploading					
		a) Do	esign an ER diagram for the above requirements. Make suitable assun	aption	1		
		wherever	required and justify the same explicitly.				
- 1	1	1.) 1.4	ake suitable assumption to represent all participation types, cardinality	ratios			
		b) M	and surrante assumption to represent an participation 37 - 3, and and				
	1	T 1	1 CC Complete Lighter Lighter your ancwer		1	_	
		Identify ar	nd represent different types of attributes. Justify your answer.	marant	10	T	4
		For the ab	nd represent different types of attributes. Justify your answer. ove E-R Diagram, Apply the ER to Relational Mapping algorithm to co ational Schema. Depict all steps appropriately and justify your answer.	nvert	10	L	4