AU - 3302

M.E. First Semester (Information Technology) (Full Time) (C.G.S.)

13419 : Database System Design : 1 NMEF 2

P. Pages: 2 Time: Three Hours			* O S 9 6 *	AU - 3302 Max. Marks : 80	
	Note	es: 1. 2. 3.	Assume suitable data wherever necessary. Illustrate your answer necessary with the help of neat sketches. Use of pen Blue/Black ink/refill only for writing the answer book.		
1.	a)		e notations used for E-R diagram. Hence draw an E-R Diagram for on- tich contains information about author, book, publisher, customer shoppi ehouse.		
	b)		lata base system in view of manipulation of data. Thus explain the advant other system.	tages 7	
			OR		
2.	a)	Explain	elements of the ER model Hence justify database as model of models.	7	
	b)	What do	you mean by semantic objects? Thus create data model with semantic of	ojects. 7	
3.	a)	Explain	difference between a HAS-A relationship and IS-A relationship with exa	mple. 7	
	b)	-	4NF, give an example of a relation in BCNF but not in 4NF. Transform t into 4NF.	he 6	
			OR		
4.	a)	Explain tables.	domain key normalization. Thus describe the use of its to normalize the o	lata 7	
	b)	Explain :	synthesis of relations. Hence justify the role of iteration.	6	
5.	a)	What do	you mean by tree network database? Explain entity relationship transform	mation. 7	
	h)	Explain i	in brief the steps of transforming semantic object into relational database	design. 6	
			OR		
6.	a)		some 1:1 relationship considered suspicious? Under what conditions sho n a 1:1 relationship be combined into one relation.	ould 7	
	b)	•	the importance of composite and compound objects. Thus justify the necessition is more advantageous.	essity of 6	
7.	a)	Explain o	querying single and multiple table.	7	
	b)		the major operations while designing database application. Hence explain view instances.	in 6	
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OR

8.	a)	Describe SQL in view of changing and retrieving data.					
	b)	Explain the distinguishing features of form design and Report design.	7				
9.	a)	What is concurrency control? Thus explain phase locking.	7				
	hi	How do you create data dictionary using managing database.	7				
	OR						
10.	a)	Explain database security issues in view of database administration.	7				
	b)	Describe the database recovery. Hence explain oracle backup and recovery.	7				
11.	a)	What is CSS? Explain how CSS is used in XML document write CSS for XML document with an example.	6				
	b)	Explain relationship of ODBC, OLE DB and ADO.	7				
		OR					
12.	a)	Describe and explain multi-tier architecture.	6				
	b)	Describe and explain why an implementation can be changed but an interface should not be changed.	7				
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