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Reg. No.								

Question Paper Code

12814

M.E. / M.Tech. - DEGREE EXAMINATIONS, APRIL / MAY 2024

First Semester

M.E. - Computer Science and Engineering 20PCSPC102 - ADVANCED DATABASES

Regulations - 2020

Du	ration	3 Hours Max.	Maı	rks: 1	100	
$PART - A (10 \times 2 = 20 Marks)$						
		Answer ALL Questions	man no	K – Level		
1.		t are the differences between client server and centralized database m architectures?	2	K2	CO1	
2.	Defin	ne ACID properties in transaction processing.	2	K1	CO1	
3.	3. List the components of Deductive databases					
4.	4. Differentiate fact table and dimension table.					
5.	5. Mention the goal of XML database.					
6.	6. Why XML models is called hierarchical model?					
7.	Ment	ion the significance of handoff management.	2	K1	CO4	
8.	Disti	nguish the shared lock and exclusive lock modes.	2	K2	CO4	
9.	What	are multidimensional databases used for?	2	K1	CO5	
10.	10. Which database is best for storing videos?				CO5	
		$PART - B (5 \times 13 = 65 Marks)$				
		Answer ALL Questions				
11.	a) i)	Explain the various ways in which the Concurrency control can be achieved in a database.	7	K2	CO1	
	ii)	Elaborate about how the Distributed query Processing is done.	6	K2	CO1	
		OR				
	b)	Explain parallel databases with inter and intra query parallelism.	13	K2	CO1	
12.	a)	Discuss about Temporal Database and TSQL2.	13	K2	CO2	
		OR				
	b)	What are Spatial data structures? Explain any two in detail.	13	K2	CO2	
13.	a)	Illustrate the role of DTD and XML schema in formation of XML documents.	13	K2	CO3	
		OR				

	b)	Write short notes on:-	7	К2	CO3					
	i) ii)	Native XML Databases Web Databases	6	K2	CO3					
14.	a)	Explain about the transaction commit protocol in mobile database system.	13	K2	CO4					
OR										
	b)	Discuss in detail about the effect of mobility on Data Management.	13	K2	CO4					
15.	a)	Illustrate the techniques involved in Audio Databases and explain each one of them.	13	K2	CO5					
OR										
	b) i)	Interpret the key features of document databases. How much easier are documents to work with than tables?	7	K2	CO5					
	ii)	Elaborate how the document databases different from relational databases?	6	K2	CO5					
$PART - C (1 \times 15 = 15 Marks)$										
16.	a)	Summarize the insertion, deletion, search and range query operation in k-d tree.	15	K2	CO6					
OR										
	b)	Illustrate how to store and retrieve images from a MySQL database using PHP.	15	K2	CO6					