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Question Paper Code: 41245

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2017

Fourth Semester

Computer Science and Engineering

14UCS405 - DATABASE MANAGEMENT SYSTEMS

(Regulation 2014)

	Duration: Three hours	S		Maximum: 100 Marks		
		Answer ALL (Questions			
		PART A - (10 x 1	= 10 Marks)			
1.	users form their requests in a database query language.					
	(a) Naïve	(b) Sophisticated	(c) Specialized	(d) Programmer		
2.	An instance of a relation.	tion that satisfies all re	al-world constraints i	s called aof		
	(a) logical instanc(c) real instance	e	(b) legal instance(d) perfect instance			
3.	3. Which SQL statement is used to extract data from a database?					
	(a) SELECT	(b) OPEN	(c) EXTRACT	(d) GET		
4.	TheSQL conqueries at runtime.	nponent of SQL allow	rs programs to const	ruct and submit SQL		
	(a) Dynamic	(b) Embedded	(c) Static	(d) None of these		
5.	ens, it restores the old					
	(a) Durability	(b) Atomicity	(c) Isolation	(d) Consistency		

6.	If a schedule S can be transformed into nonconflicting instructions, we say that S and	•	a series of swaps of
	(a) conflict equivalent(c) conflict match	(b) conflict serializa(d) None of these	able
7.	indices is based on the unifor	rm distribution of v	alues across a range of
	buckets		
	(a) Ordered (b) Hash	(c) Dense	(d) Sparse
8.	B+tree index takes the form of ain value of the tree is of the same length.	vhich every path from	n the root of the tree to a
	(a) balanced tree	(b) binary tree	
	(c) search tree	(d) none of these	
9.	sources stored under		
	(a) Database	(b) Data mining	
	(c) Data Warehouse	(d) Spatial database	
10.	People view multimedia data through variou	s devices, collectivel	y referred to as
	(a) terminals (b) displays	(c) monitors	(d) None of these
	PART - B (5 x 2	2 = 10 Marks)	
11.	List four significant differences between a fi	le-processing system	and a DBMS.
12.	Define ACID property.		
13.	Why transactions are executed concurrently	?	
14.	Differentiate interquery and intraquery paral	lelism.	
15.	Illustrate about data classification.		
	PART - C (5 x 1	6 = 80 Marks)	
	16. (a) State the need for normalization of suitable examples.	f a database and exp	plain normal forms with (16)

	(b)	(i) Explain the different kinds of data models.	(8)				
		(ii) Explain Boyce-Codd normal form with example and also compare BCN 3NF.	F and (8)				
17.	(a)	Explain the different algorithms used for selection operation and their assocost.	ciated (16)				
	Or						
	(b)	(i) Examine the steps involved in query processing.	(8)				
		(ii) List out the different selection operations involved in query processing.	(8)				
18.	(a)	Identify the occurrence of deadlock in a system. Explain the two approach prevent deadlock.	hes to (16)				
		Or					
	(b)	Discuss in detail about transaction properties and two phase commit protocol.	(16)				
19.	(a)	List the different levels in RAID and explain its features.	(16)				
		Or					
	(b)	Explain the architectural components of a Data warehouse.	(16)				
20.	(a)	Explain in detail the database security.	(16)				
		Or					
	(b)	Draw the Information Retrieval framework and explain its process.	(16)				