Program: Computer Engineering Curriculum Scheme: 2012 Examination TE Semester VI Course Code: CPC603 and Course Name: Distributed Databases

Time: 2 hour

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Max. Marks: 80

Q1. Choose the correct option for following questions. Total All the Questions are compulsory and carry equal marks			
1.	distributed database has which of the following advantages over a		
	centralized database?		
Option A:	Software cost		
Option B:	Software complexity		
Option C:	Slow Response		
Option D:	Modular Growth		
2.	In DDB local communication cost is		
Option A:	Calculated		
Option B:	Achieved		
Option C:	Increased		
Option D:	Minimized		
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3.	If a relation contains a small number of tuples and not updated frequently		
	then is better to go for		
Option A:	Horizontal Fragmentation		
Option B:	Vertical Fragmentation		
Option C:	Mixed Fragmentation		
Option D:	No Fragmentation		
4.	When transaction Ti requests a data item currently held by Tj, Ti is allowed to wait only if it has a timestamp smaller than that of Tj (that is, Ti is older than Tj).		
	Otherwise, Ti is rolled back (dies). This is		
Option A:	Wait-die		
Option B:	Wait-wound		
Option C:	Wound-wait		
Option D:	Wait		
5.	Completeness is desirable in horizontal fragmentation because		
Option A:	It balanced load across all the resulting fragments		
Option B:	it unbalanced load across all the resulting fragments		
Option D:	it balanced the usage across all the resulting fragments		
Option D:	it unbalanced the usage across all the resulting fragments.		
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6.	In vertical fragmentation "affinity" to understand		
Option A:	Independent		
Option B:	Separate		
Option C:	Togetherness		

Option D:	Mixed	
7.	If one site ABORTs while processing part of a distributed transaction t, all other	
	sites processing part of t will also ABORT t. Which of the following ensures this?	
Option A:	Two phase locking protocol	
Option B:	Two phase commit protocol	
Option C:	Three phase locking protocol	
Option D:	Three phase commit protocol	
8.	Query optimization is choosing the most efficient stratergy	
0.	from multiple alternative for query processing	
Option A:	Execution	
Option B:	Analysing	
Option C:	cost effective	
Option D:	load balancing	
option D.		
9.	In system R Algorithm which method is used to join the relations	
Option A:	nested table	
Option B:	nested loop	
Option C:	outer join	
Option D:	equijoin	
10.	In Iterative N-ary integration naming conflcts	
Option A:	synonyms,homonyms	
Option B:	synonyms,anonymous	
Option C:	homonmyms,anonymous	
Option D:	Synonymous	
11.	Which of the following issues occurs due to Autonomy in query processing in	
11.	heterogeneous distributed databases	
Option A:	Load autonomy	
Option B:	Communication autonomy	
Option D:		
Option D:	Distribution autonomy Storage autonomy	
Option D.		
12.	A heterogeneous database system is a integration of	
Option A:	heterogeneous, disparate databases	
Option B:	homogeneous, disparate databases	
Option C:	separate databases	
Option D:	homogeneous, sepatare databases	
13.	DTD stands for	
Option A:	Division to definition	
Option B:	Document type definition	
Option C:	Data type division	
Option D:	data type document	
14.	W3C supports an XML based alternative to DTD, called	
Option A:	XML Schema	
Option B:	HTML DOM	
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Ontion C:	VMI Dersor		
Option C: Option D:	XML Parser		
Option D.	XML Query		
15.	XSL definition is used along with XML definition to specify		
Option A:	The data types of the contents of XML document		
Option B:	The presentation of XML document		
Option C:	The links with other documents		
Option D:	The structure of XML document		
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16.	Distributed deadlock detection is		
Option A:	Chandy – Misra-Haas algorithm		
Option B:	Centralized deadlock detection algorithm		
Option C:	Hierarchical deadlock detection algorithm		
Option D:	Wait for graph algorithm		
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17.	In Pre integration the designer uses common approach as		
Option A:	Extractor		
Option B:	Transformer		
Option C:	Ladder		
Option D:	Loader		
18.	#PCDATA is		
Option A:	Parsed character data		
Option B:	Parsed component data		
Option C:	Partial character data		
Option D:	Partial component data		
19.	In pessimistic concurrency control technique V stands for		
Option A:	Veracity		
Option B:	Value		
Option C:	Validate		
Option D:	Volume		
20.	XML deals with storage and of data		
Option A:	Transport		
Option B:	Minify		
Option C:	Design		
Option D:	Filter		

Q2	Solve any Two Questions out of Three	10 marks each
1	Write a short note on 2PC recovery protocols	
2	Explain Heterogeneous databases	
3	What is DDBMS? Explain the advantages of DDBMS	

Q3	Solve any Two Questions out of Three	10 marks each
1	Explain any two transparencies in DDBMS.	
2	Write a short note on Deadlock detection in Distributed Databases.	
3	Explain R* Algorithm in detail.	