Program: TE Computer Engineering Curriculum Scheme: 2016 Examination: Third Year Semester VI

Course Code: CSDLO6022 and Course Name: Advanced Database Management System

Time: 1 hour Max. Marks: 50

Note to the students:- All the Questions are compulsory and carry equal marks.

Q1.	In ordered indices the file containing the records is sequentially ordered, a		
	is an index whose search key also defines the sequential order of the file.		
Option A:	Clustered index		
Option B:	Structured index		
Option C:	Unstructured index		
Option C:	Non clustered index		
Option D.	Ivon clustered index		
Q2.	Global Wait-for graph is used for in Distributed database.		
Option A:	handling network		
Option B:	Handling deadlock		
Option C:	Handling failures		
Option D:	Handling concurrency control		
Q3.	A collection and a document in MongoDB is equivalent to concepts		
	respectively.		
Option A:	Database and Table		
Option B:	Table and Column		
Option C:	Column and Row		
Option D:	Table and Row		
Q4.	Some of the columns of a relation are at different site is		
Option A:	Vertical Partitioning		
Option B:	Data Replication		
Option C:	Horizontal and Vertical Partitioning		
Option D:	Horizontal Partitioning		
Q5.	The index which has an entry for some of the key value is classified as		
Option A:	non dense index		
Option B:	Linear index		
Option C:	Dense index		
Option C:	Clusture index		
Spacin D.			
Q6.	Immediate Update and Deferred Update are two methods for		
Option A:	maintaining transaction logs.		
Option B:	updating table		
Option C:	changing the logs		
Option D:	update a row		

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Q7.	What is not true about JSON		
Option A:	JSON is a lightweight data-interchange format		
Option B:	JSON is "self-describing" and easy to understand		
Option C:	JSON is language independent		
Option D:): JSON is a database		
Q8.	The non leaf nodes of B+ tree form a		
Option A:	Multilevel clustured indices		
Option B:	Sparse indices		
Option C:	Multilevel dense indices		
Option D:	Multilevel Sparse indices		
Q9.	Company X is planning to implement rule based access control mechanism for		
	controlling access to its information assets, what type of access control is this		
	usually related to?		
Option A:	Discretionary Access Control		
Option B:	Subject-dependent Access Control		
Option C:	MAC (Mandatory Access Control) list		
Option D:	Task-initiated Access Control		
Q10.	Which of the following is a disadvantage of replication?		
Option A:	Reduced network traffic		
Option B:	If the database fails at one site, a copy can be located at another site.		
Option C:	Each site must have the same storage capacity.		
Option D:	Each transaction may proceed without coordination across the network.		
Q11.	When we update any tuple in the relation which Authorization on a relation		
	allows a user to?		
Option A:	select authorization		
Option B:	update authorization		
Option C:	grant authorization		
Option D:	define authorization		
Q12.	Each relational algebra expression represents a sequence of		
Option A:	Opearators		
Option B:	Differentials		
Option C:	Parameters		
Option D:	Routines		
Q13.	Which of the following transaction processing properties ensures once a		
	transaction completes successfully (commits), the updates survive even if there is		
	a system failure?		
Option A:	Durability		
Option B:	Atomicity		
Option C:	Isolation		
Option D:	Consistency		
Q14.	Hash indices are based on a range of bucket values, which is determined by a		

	function,called a		
Option A:	Ordering function		
Option B:	Index function		
Option C:	Hash function		
Option D:	Table function		
Option D.	Tuble Tubletion		
Q15.	A problem encountered in multitasking when a process is perpetually denied		
Q13.	necessary resources is called		
Option A:	Deadlock		
Option B:	Starvation		
Option C:	Inversion		
Option D:	Aging		
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Q16.	The mostly wide structure used for indexing is		
Option A:	B+ tree structure		
Option B:	balanced tree structure		
Option C:	unbalanced tree structure		
Option D:	Sequential tree structure		
Q17.	Temporal Data is generally used in Real-time systems, for example,		
Option A:	Railway Seat Reservation		
Option B:	Sensex		
Option C:	Weather forecasting		
Option D:	social media		
Q18.	A deadlock eventually cripples system throughput and will cause the CPU		
	utilization to		
Option A:	Increase		
Option B:	Drop		
Option C:	Stay still		
Option D:	Gradually increase		
Q19.	In case of A4 search algorithm, if the equality condition is on a key,the strategy		
	can retrieve		
Option A:	Single records		
Option B:	Multiple records		
Option C:	Two records		
Option D:	No records		
Q20.	Time in Temporal data model is		
Option A:	Multi dimentional		
Option B:	Bi directional		
Option C:	Multi dimentional		
Option D:	D: Three dimentional		
Q21.	In JSON, values can not be of which data types		
Option A:	String		
Option B:	Number		

Option C:	Null	
Option C:	Fractional number	
Option D.	Fractional number	
Q22.	In the query evaluation plan,the response time is merely dependent on the contents of the	
Option A:	Queue	
Option B:	Disk	
Option C:	Buffer	
Option D:	Pipeline	
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Q23.	Absolute Validity in temporal database is	
Option A:	makes sure that there must be some consistency in the real data and the data	
	stored in the database.	
Option B:	makes sure that there must be full consistency in the real data and the data stored	
	in the database.	
Option C:	makes sure that there must be some inconsistency in the real data and the data	
	stored in the database.	
Option D:	makes sure that there must be full consistency in the real data and the data stored	
	in the database.	
Q24.	A transaction can do only read operation and not write operation on a data item	
	when it acquires lock.	
Option A:	Read mode	
Option B:	Exclusive mode	
Option C:	Shared mode	
Option D:	Write mode	
Q25.	The most commonly used algorithm technique for external sorting is known as	
Option A:	Sort and Merge	
Option B:	External sort and merge	
Option C:	External Merge	
Option D:	External runnable merge	

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Question	Correct Option (Enter either 'A' or 'B' or 'C' or 'D')
Q1.	A
Q2.	В
Q3.	D
Q4	A
Q5	A
Q6	A
Q7	D
Q8.	D
Q9.	A
Q10.	С
Q11.	В
Q12.	A
Q13.	A
Q14.	С
Q15.	В
Q16.	A
Q17.	A
Q18.	В
Q19.	A
Q20.	A
Q21.	D
Q22.	С
Q23.	A
Q24.	С
Q25.	В