Paper / Subject Code: 32403 / Advanced Data Management Technology

Tuesday, May 21, 2019 02:30 pm - 05:30 pm   1T01225 - T.E. (INFORMATION TECHNOLOGY) (Sem V) (Choice Based) /
32403 - Advanced Date Management Technology   69036

(Time: 3 Hrs)   **Marks: 80**

N.B. : 1. Question no. 1 is **compulsory**.

   2. Solve any **Three** questions out of remaining **Five** questions.

Qu-1		Attempt any **FOUR** of the following.	
	a)	Write short note on "Query Evaluation Plan"	**5**
	b)	Justify the statement "Collections of operations that form a single logical unit of work are called Transactions."	**5**
	c)	List and explain the commonly accepted security goals for databases.	**5**
	d)	List the Distribution Design Issues and explain any one in detail.	**5**
	e)	List and explain basic tasks involved in Data Transformation.	**5**
Qu-2	a)	Show that the two-phase locking protocol ensures conflict serializability, and that transactions can be serialized according to their lock points.	**10**
	b)	Explain generic layering scheme for Distributed Query Processing.	**10**
Qu-3	a)	Explain Temporal databases with suitable example.	**10**
	b)	List and explain any four OLAP Operations in a cube with suitable example.	**10**
Qu-4	a)	What is the general purpose of the Data-warehouse architecture? Explain the architectural components of Data-warehouse with suitable diagram.	**10**
	b)	List various fragmentation strategies in distributed database and explain any one in detail.	**10**
Qu-5	a)	List and explain the types of activities and tasks that compose the ETL process.	**10**
	b)	Explain ARIES Algorithm in detail.	**10**
Qu-6		Attempt the following.	
	a)	Measures of Query Cost.	**5**
	b)	Shadow Paging.	**5**
	c)	Mobile Databases.	**5**
	d)	Factless Fact Table.	**5**

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