T.E. (IT) (Sem -V) (CB)   Date - 21/11/19

Time: 3 hours   **Marks: 80**

N.B.: 1. Question no. 1 is compulsory.
2. Attempt any Three from remaining questions.
3. Give examples wherever required.

Q 1	a	List out the twelve rules for distributed DB.	5
	b	Explain Shared Memory and Shared Nothing Architecture for Parallel DBs.	5
	c	Why BCNF is called as stricter than 3NF? Justify your answer.	5
	d	What is Materialized View, What is its utility?	5
Q 2	a	Explain Discretionary Access Control, Mandatory Access Control and Role- Based Access Control in brief.	10
	b	Explain Significance of each step in ETL Process, also explain types of data extraction and data transformation.	10
Q 3	a	Explain Sort-Merge Join and HASH Join.	10
	b	Explain Wait- Die and Wound-Wait methods for Deadlock Prevention. Compare them in terms of no. of Possible rollbacks and Starvation.	10
Q 4	a	Explain Star and Snow Flake Schema. Specify their Pros and Cons.	10
	b	Explain Aries Algorithm in detail.	10
Q 5	a	Consider a data warehouse for weather related data like region, date and temperature. Using this example explain all the OLAP operations	10
	b	Explain Primary Horizontal, Derived Horizontal and Vertical Fragmentation with example. Comment on Completeness, Reconstruction and Disjointness Properties.	10
Q 6		Short Note on:	
	a	Temporal databases	5
	b	Spatial Databases	5
	c	Inconsistent read, fuzzy read and phantom read problems in concurrent schedules.	5
	d	Data Marts	5

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Correction in 1T01225 - T.E.(Information Technology Engineering)(SEM-V)(Choice Base) / 32403 - Advanced Data Management Technology

1 message

University of Mumbai <support@muapps.in>   Thu, Nov 21, 2019 at 3:32 PM
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Correction in **1T01225** - T.E.(Information Technology Engineering)(SEM-V)(Choice Base) / **32403** - Advanced Data Management Technology
Q.P. Code: **78123**

Q1 b : Explain Shared Memory and Shared Nothing Architecture.

Rest of the questions are based on syllabus and the prerequisite subject

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