1T01235 - T.E.(Information Technology Engineering)(SEM-V)(Choice Base Credit Grading System ) (R-19) (C Scheme) / 32426 - Department Optional Course-I: Advance Data Management Technologies 10039244

Time:3 hrs Max. Marks:80

	_	
N	R	•
T ∡	·D	••

1.	<b>Question</b>	no.	1	is	compii	lsorv.
1.	Question	110.	_	10	compu	IOUI Y

- 2. Attempt any Three out of remaining Five questions.
- **3.** Assume suitable data wherever necessary.
- **4.** Figures at right indicates full marks.

Q.1	a.	Discuss the role CAP theorem in NoSQL Databases.	05
	b.	Explain nested loop join in detail.	05
	c.	Discuss the Role Based access control.	05
	d.	What is ETL. Discuss role of ETL in data warehousing.	05
Q.2	a.S	Explain Discretionary Access control, Mandatory Access Control with suitable examples.	10
	b.	Draw and explain federated data warehouse architecture. Also discuss the role data marts in data warehouse in detail.	10
Q.3	a.	Differentiate between star and snowflake schema. Draw the star schema for library management system and explain in brief.	10
	b.	Differentiate between traditional Data and Big Data. Also discuss various characteristics of Big Data	10
Q.4	a.	Discuss the Distributed Database System. Discuss the need of Distributed Database system. Also explain various Data Fragmentation techniques in detail.	10
	b.	Explain MOLAP, ROLAP, HOLAP in detail.	10
Q.5	a.	Explain Query Processing Mechanism in details.	10
	b.	Enlist four NoSQL Architectural Patterns. Discuss any two Architectural pattern in detail.	10
Q.6	36	Write Short Note on	
	a.	Mobile and Spatial Database.	10
	b.	Data Loading Methods in Data warehouse.	10