Total No.	of Questio	ns:	8]
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T.E. (Information Technology) ADVANCED DATABASE AND MANAGEMENT SYSTEM (2019 Pattern) (Semester - I) (314445 B) (Elective-I)

Time: 2½ Hours] [Max. Marks: 70

Instructions to the candidates:

- 1) Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right side indicate full marks.
- 4) Assume Suitable data if necessary.
- **Q1**) a) What is a NOSQL Database? How would you classify the different types of NOSQL Databases? [9]
 - b) Explain in brief the advantages of MongoDB over RDBMS. [9]

OR

- **Q2)** a) What is meant by a column-based database? What are the different components of the Cassandra Database? [9]
 - b) How would you classify the difference between SQL and NOSQL databases? [9]
- Q3) a) How would you compare OLTP and OLAP Systems based on their features? [8]
 - b) Draw and explain the main components of a data warehouse and its characteristics. [9]

OR

Q4)	a)	Explain in brief the characteristics and limitations of the data warehouse.[8			
	b)	Explain what is a data warehouse and describe schemas in the data warehouse.	ata [9]		
Q 5)	a)	How would you demonstrate the KDD seven-step process?	9]		
	b)	Explain different applications of data mining.	9]		
		OR			
Q6)	a)	Explain the architecture of data mining techniques.	9]		
	b)	How would you demonstrate predictive and descriptive algorithms with an example?	ith [9]		
Q 7)	a)	Elaborate the term Mobile databases.	9]		
	b)	Differentiate between Spatial and Temporal databases. [[8]		
		OR			
Q 8)	a)	Write a short note on Multimedia databases.	9]		
	b)	Discuss Geographical Information Systems in detail.	[8]		
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