Time: 21/2 Hours]

SEAT No.:		r			
[Total	No.	of	Pages	:	2

[Max. Marks: 70

P.T.O.

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[5870] - 1145

T.E. (Information Technology) ADVANCED DATABASE AND MANAGEMENT SYSTEM (2019 Pattern) (Semester - I) (Elective - I) (314445B)

Insti	ructi	ions to the candidates:		
	1)			
	2)			
	3)	Figures to the right side indicate full marks.		
	4)	Assume Suitable data if necessary.		
Q1)	a)	Compare relational and NoSQL databases.	[9]	
	b)	Explain features and advantages of MongoDB.	[9]	
		OR		
Q2)	a)	Describe NoSQL database development tools.	[9]	
	b)	What is JSON? Explain data types and features of JSON.	[9]	
Q3)	a)	What is OLAP? Explain type of OLAP.	[9]	
	b)	Draw and explain Datawarehouse Architecture.	[8]	
		OR		
Q4)	a)	Explain data warehouse scheme with example.	[8]	
	b)	Explain in brief characteristics and limitations of data warehouse.	[9]	
Q5)	a)	Explain architecture of data mining system.	[9]	
	b)	What are different applications of data mining.	[9]	
		OR		

Q6)	a)	What is data mining? What are different challenges in implementat data mining.	
	b)	What is data preprocessing? Explain data preprocessing tech	niques.[9]
Q7)	a)	Compare Spatial and Temporal databases.	[8]
	b)	Explain multimedia databases in detail with respect to characte challenges.	eristics and [9]
		OR	
Q8)	a)	Explain Deductive Databases.	[8]
	b)	What are active databases? Elaborate with example.	[9]

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