Total No. of Questions : 10]	SEAT No.:	
P4008	Total No. of Pages : 2	

[4760] - 412

M.E. (Computer Engineering) DATA WAREHOUSING AND DATA MINING (Elective - IV) (2008 Pattern)

		(2008 Pattern)	
Time	2:3 H	Iours] [Max. Marks	:100
Instr	uctio	ons to the candidates:-	
	<i>1)</i>	Answers to the two sections should be written in separate books.	
	<i>2)</i>	Neat diagrams must be drawn wherever necessary.	
	3)	Assume suitable data, if necessary.	
	<i>4)</i>	Section I: Q1 is compulsory. Solve Any Two questions out of Q2,Q3,Q4	
	<i>5)</i>	Section II: Q6 is compulsory. Solve Any Two questions out of Q7,Q8,Q9,	, <i>Q10</i> .
		<u>SECTION - I</u>	
Q1)	a)	Explain Data Warehouse Load Manager (ETL process) in details.	[8]
	b)	Design snowflake schemas for financial services data warehouse.	[8]
<i>Q2)</i>	a)	Define Multidimensional Model. Explain different OLAP servers.	[9]
	b)	Explain various guidelines for designing fact table and dimension table conceptual modeling schemas.	ole in [8]
Q3)	a)	Describe Market Basket problem using Apriori Association Rule mi algorithm.	ining [9]
	b)	Describe data mining primitives with suitable example.	[8]
Q4)	a)	Write a short Note on :	[12]
		i) Data Decretization	
		ii) Materialized View	
	b)	Explain correlation analysis technique with suitable example.	[5]

Q5)	a)	Explain mining Multi-level Association Rules from Relational Databa and Data Warehouse.	se [9]
	b)	Describe dimensionality reduction techniques in data warehouse	[8]
		SECTION - II	
Q6)	a)	Define Classification and Prediction. Explain decision tree bas classification method with suitable example.	ed [8]
	b)	Define Information Retrieval System. Describe keyword based associati text mining.	on [8]
Q7)	a)	Describe K-Nearest Neighbor classifiers with suitable example.	[9]
	b)	Define Outlier. Explain any two methods for outlier detection and handlin	ng. [8]
Q8)	a) b)	i) Spatial association	[9] [8]
Ω	٥)	ii) Web usage mining Evaluin Neïve Payagian alaggification algorithm for amail alaggification	[0]
Q9)	a) b)	Explain Naïve Bayesian classification algorithm for email classification. Describe K-Means clustering technique with suitable example.	[8]
Q10)	a)	Explain neural network approach used for model based clustering.	[9]
	b)	Explain Page rank algorithm in web and text mining.	81

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