



III B.Tech. II Semester Supplementary Examinations, April/May - 2013 DATA WARE HOUSING AND DATA MINING

(Information Technology)

Time: 3 Hours

Code No: V3244

Max Marks: 80

Answer any FIVE Questions All Questions carry equal marks *****

1.	a) How is a data warehouse different from a database? How are they similar?	[8M]
	b) Discuss major issues in Data Mining.	[8M]
2.	a) Differentiate between OLTP and OLAP.	[8M]
	b) Summarize various features of Data ware houses.	[8M]
3.	a) What are interestingness measures.	[8M]
	b) Differentiate between loose coupling and semi tight coupling	[8M]
4.	a) Discuss why analytical characterization is needed and how it can be performed?	[8M]
	b) Outline a data cube-based incremental algorithm for mining analytical class compa	rison.
		[8M]
5.	a) Explain the constraint based association mining.	[8M]
	b) Write about distance association rules.	[8M]
6.	a) Explain the classification by decision tree induction.	[8M]
	b) How can you find the accuracy of classifier?	[8M]
7.	a) Explain different types of data in cluster Analysis.	[8M]
	b) What is meant by outlier Analysis? What are various methods for finding	outlier
	analysis?	[8M]
8.	a) Explain three types of dimensions in a spatial data cube.	[8M]
	b) What is meant by spatial classification? What are different approaches for sin	nilarity
	based retrieval in image databases.	[8M]

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1.	a) In real world data tuples with missing values for some attributes are common occurrence.	
	Describe various methods for handling this problem.	[6M]
	b) Discuss issues to be considered during data integration.	[4M]
	c) Discuss the principal components Analysis technique for Data Reduction.	[6M]
2.	a) What is multidimensional data model? How it is different from Databases?	[8M]
	b) What are various schemas for multidimensional databases?	[8M]
3.	a) What are functional component of data mining (GUI)?	[10M]
5.	b) Write the syntax for specifying the kind of knowledge to be mined.	[6M]
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4.	a) Explain different class comparison methods.	[8M]
	b) How can you measure the dispersion of data.?	[8M]
5.	a) What is meant by reduced support?	[8M]
	b) Explain mining quantitative association rules.	[8M]
6.	a) What is Bayesian classifiers? Briefly outline the major ideas of Navie Bayesian	
	classification.	[8M]
	b) Write an algorithm for k-nearest neighbor classification given k and n, the number of	
	attributes describing each sample.	[8M]
7.	a) What are various methods in density-based clustering. Explain.	[8M]
	b) Write the k-medoids algorithm.	[8M]
		[0174]
8.	a) How can you implement spatial association mining? Explain	[8M]
	b) What is meant by weblog mining? how it related to web link structures?	[8M]

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1.	a) Explain the functionalities of Data Mining.	[8M]
	b) Explain different Normalization techniques used in data transformation.	[8M]
2.	a) Explain the data warehouse Architecture with neat diagram	[8M]
	b) Discuss various types of OLAP servers.	[8M]
3.	a) Explain the primitives for specifying a data mining task.	[10M]
5.	b) What are four major types of concept hierarchies?	[6M]
4.	a) What is concept description .how it is related to class description? Justify.	[8M]
	b) Write the algorithm for attribute –oriented induction.	[8M]
5.	a) What is market basket analysis? How is it used in association rule mining?	[8M]
5.	b) How can you find frequent itemsets using candidate generation?	[8M]
	b) now can you mid nequent nonsets using candidate generation.	
6.	a) What are various methods for increasing classifier accuracy? Explain.	[8M]
	b) Explain other classification methods.	[8M]
7.	a) Given two objects represented by the tuples (22,1,42,10) and (20,0,36,8) compu	ite the
<i>.</i>	Euclidean distance and manhattan distance between the two objects.	[10M]
	b) What are the algorithms used in grid –based method? Explain	[6M]
8.	a) Differentiate text data mining and sequence data mining.	[8M]
	b) Explain the concept of web usage mining	[8M]

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1.	a) Explain the steps for the process of knowledge discovery.	[8M]			
	b) Describe the methods for data cleaning.	[8M]			
2.	a) Explain various OLAP operations in the multidimensional Data Model.	[8M]			
	b) Explain the architecture of three-tier data warehousing.	[8M]			
3.	a) Explain different coupling schemas of data mining to be integrated	with a DB/DW			
	system.	[12M]			
	b) Write the syntax for interestingness measure specification.	[4M]			
4.	a) What is the difference between attribute generalization threshold con	trol and attribute			
	generalization control?	[8M]			
	b) What is meant by class comparison explain?	[8M]			
5.	a) How can the efficiency of Apriori be improved.	[8M]			
5.	b) How FP growth algorithm contributed for improvement of Apriori algori				
	b) now regional algorithm contributed for improvement of Aprior algori				
6.	a) Write Back propagation algorithm	[8M]			
	b) What is meant by Tree Pruning. Differentiate between pre pruning and p	ost pruning?			
		[8M]			
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7.	a) What is meant by clustering? Explain the partitioning methods with an ex	1			
	b) How to compute the dissimilarity between objects of Asymmetric binary				
8.	a) How can we study time-series data? What are the various componen	[8M]			
0.	time-series data?	[8M]			
	b) Explain about spatial association analysis.	[8M]			
	of Explain about spatial association analysis.				

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