Ro	1 11	No. Total No. of Pa	ges: 02	
Total No. of Questions: 09				
M.Sc.(IT) (2015 Onwards) (Sem. – 4) DATA WAREHOSUING AND MINING M Code: 74116 Subject Code: MSIT-404 Paper ID: [74116]				
Tiı	Time: 3 Hrs. Max. Marks: 60			
 SECTIONS-A, B, C & D contains TWO questions each carrying TEN marks and students have to attempt any ONE question from each SECTION. SECTION-E is COMPULSORY consisting of TEN questions carrying TWENTY marks in all. Use of non-programmable scientific calculator is allowed. 				
SECTION A				
1.	a)	Explain the use and importance of different kinds of relations for spatial systems.	(5)	
	b)	What are various steps involved in the process for Data Pre-Processing? Explain.	(5)	
2.	Ex	plain different types of MDD Model with pictorial representation and suitable exar	mples. (10)	
SECTION B				
3.	Wı	rite note on:		
	a)	Temporality Data Types.	(5)	
	b)	Temporal Hierarchies.	(5)	
4.	a)	Why there is a need for Temporal Extension of the Multi Dimensional Model? Ex	aplain. (5)	
	b)	Explain Conceptual Model for Temporal Data Warehouses.	(5)	
SECTION C				
5.	a)	What are Bayesian classifiers? With an example, describe how to predict a class lausing Naive Bayesian classification.	abel (5)	

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(5)

b) What is backpropogation? Describe backpropogation algorithm.

- 6. a) Differentiate between Fuzzy Set and Rough Set approach with appropriate examples. (5)
 b) What is Pattern Classification? Describe about basic measures for text classification. (5)
 SECTION D
 7. a) Describe different types of variables used in cluster analysis with examples. (5)
 b) Briefly explain the hierarchical clustering. (5)
 8. Explain the following with respect to DBSCAN:

 a) Algorithm
 b) Strengths and weaknesses
 (5)

 SECTION E
- 9. Give short answers of the following:
 - a) Distinguish between Classification and Prediction.
 - b) What is Cross Validation?
 - c) List the major issues in data mining.
 - d) What is the difference between OLTP and Data Warehouse?
 - e) What is the difference between K-nearest Neighbor and Case based Reasoning?
 - f) Discuss spatial objects.
 - g) What is Multiple Regression?
 - h) Discuss K-mean with respect to Clustering.
 - i) What is the principle behind use of Genetic Algorithm?
 - j) "Big data and Data Warehouses are interconnected" Justify the statement.

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