

www.FirstRanker.com

www.FirstRanker.com

Code No: I0505/R16

M. Tech. I Semester Regular/Supple Examinations, Jan/Feb-2018

DATA WAREHOUSING AND DATA MINING/ DATA WARE HOUSING AND MINING

Common to Computer Science (05), Computer Science & Engineering (58) And Neural Networks (69)

Time: 3 Hours Max		Marks: 60	
		Answer any FIVE Questions	
All Questions Carry Equal Marks			
1.	a b	What is the need to build a data warehouse? Write and explain various steps to build the data warehouse Specify and explain the reasons for mapping data warehouse system with multiprocessor architecture.	6M 6M
2.	a	How to integrate data mining system with data base and data warehouse system?	6M
	b	Differentiate multi relational OLAP with multi dimensional OLAP.	6M
3.	a b	What is OLAP? How to build it? Give the guidelines With an example data warehouse explain various schemas used to represent multi dimensional data.	6M 6M
4.	a b	 What motivated data mining? Why is it important? Explain the components of it Explain the following major issues in data mining Mining methodology and user interaction Performance issues. 	6M 6M
5.	a b	"Data preprocessing techniques can improve the quality of data"-Justify this statement. Compute Euclidean Manhattan Minkowski distance($a=3$) between 2 objects for	6M 6M
	2	the given 2 objects represented by tuples $(22,1,42,10)$ and $(20,0,36,8)$	5112

1 of 2



www.FirstRanker.com

6M

Code No: I0505/R16

- List all frequent item sets and strong association rules with support 's' and 12M confidence 'c' for the following transaction database I1:{T1,T4,T5,T7,T8,T9}, I2= {T1,T2,T3,T4,T6,T8,T9} I3={T3,T5,T6,T7.T8.T9} I4={T2,T4} I5={T1,T8}
- 7. a Write the process of classification by support vector machines when data is both 6M linearly separable and inseparable.
 - b Explain the following regressions
 - i) Linear regression
 - ii) Multiple linear regression
 - iii) Nonlinear regression.
- 8. a "One person's noise could be another person's signal"-Justify this statement with various computer based outlier analysis methods..
 - b Explain how partitioning clustering works with k-means and k-medoids algorithm. 6M
