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### Code No: MC1343/R13

## MCA IV Semester Regular/Supplementary Examinations, June-2016

# DATA WAREHOUSING AND MINING

**Time: 3 Hours** Max. Marks: 60

# Answer Any **FIVE** Questions

- All Questions Carry Equal Marks 1. a What is data preprocessing? Explain in detail. 6 Given two objects represented by the tuples: (22,1,42,10) and (20,0,36,8), compute the 6 Euclidean distance, Manhanttan distance, Minkowski distance between the two objects using q=3. 2. Describe schemes for multidimensional databases. 6 b What are summery statistics? Explain 6 3. a Discuss about problem definition of association analysis. 6 Explain about evaluating the performance of a classifier. 6 4. Describe Naïve bayes classifier with examples. 12 Apply Apriori algorithm for the following transaction database and identify all frequent 5. 12
- item sets systematically with minsup = 0.3Liks Ranker

Row	Transaction
1	{a, b}
2	{b, c}
3	{a, b, c}
4	{d, e, f}
5	{a, b, c}
6	{d, f}
7	$\{c, d, e, f\}$
8	${a, b, c, d, e}$

- a Write the basic K-means algorithm and explain. 6 Describe strengths and weaknesses of K-means. 6
- 7 7. a Discuss in detail about agglomerative hierarchical clustering What are the key issues in hierarchical clustering? 5
- 8. a Explain Functionalities of search engines. 6 Discuss about mining the web link structure to identify authoritative web pages. 6

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