

**Code No: 5405AR****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****M. Tech II Semester Examinations, December – 2018/January - 2019****DATA WAREHOUSING AND DATA MINING****(Computer Science)****Time: 3hrs****Max.Marks:75****Note:** This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

**PART - A****5 × 5 Marks = 25**

- 1.a) Give a brief note on Mining multidimensional databases. [5]
- b) Write about fuzzy set approach. [5]
- c) What is meant by cluster analysis? [5]
- d) Explain text clustering and its applications. [5]
- e) Explain Mining Sequence Patterns in Transactional Databases. [5]

**PART - B****5 × 10 Marks = 50**

2. Discuss mining multidimensional association rules from Relational databases and data warehouses. [10]  
**OR**
- 3.a) Define Association Rule Mining. Explain Apriori algorithm with suitable illustration.  
b) Explain regression methods. [5+5]
4. Explain the Classification by Back propagation. [10]  
**OR**
5. What is association-based classification? Why is association-based classification able to achieve higher classification accuracy than a classical decision-tree method? Explain how association-based classification can be used for text document classification? [10]
6. Explain optics and Denclue algorithms. [10]  
**OR**
7. Explain k-mediod algorithm in Graph clustering. [10]
- 8.a) Explain text -indexing techniques.  
b) Describe mining multimedia data on the web. [5+5]  
**OR**
9. Discuss about data mining applications. [10]
- 10.a) What is spatial mining? Explain about the spatial mining tasks?  
b) Write and explain about spatial trend algorithm. [5+5]  
**OR**
11. Discuss about the SPADE algorithm and GSP algorithm. [10]

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