

Code No: 5405AR

R17

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M. Tech II Semester Examinations, June/July - 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) Discuss the steps involved in knowledge discovery from data. [5]
- b) What are support vector machines? Give the applications of SVMs. [5]
- c) What is clustering? Classify various types of clustering algorithms. [5]
- d) What is web content mining? Explain. [5]
- e) What are data mining applications? Explain. [5]

PART - B

5 × 10 Marks = 50

- 2.a) Explain the concepts characterization and discrimination.
 - b) What is a cluster? Explain about cluster analysis. [5+5]
- OR**
3. Explain the data-cube based and clustering based quantitative associations. [10]
 4. Explain the multilayer feed-forward neural networks with an example. [10]
- OR**
- 5.a) Explain the steps of associative classification.
 - b) Discuss the fuzzy set approach for classification. [5+5]
- 6.a) What is grid based clustering? Explain about any one grid based clustering algorithm.
 - b) Discuss the extrinsic methods to determine the cluster quality. [5+5]
- OR**
- 7.a) Discuss the problems and challenges in clustering high dimensional data.
 - b) Discuss the applications and challenges of clustering graph and network data. [5+5]
- 8.a) What is text mining? Explain about unstructured text mining.
 - b) Explain the episode rule discovery for texts. [5+5]
- OR**
9. What is web structure mining? Explain. [10]
 10. What is temporal data mining? Explain the Temporal association rules. [10]
- OR**
- 11.a) What is event prediction problem? Explain.
 - b) Explain the GSP algorithm. [5+5]

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