

R18

Code No: 157BC

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, July/August - 2023

DATA MINING

(Common to CSE, IT, ITE)

Time: 3 Hours

Max. Marks: 75

Note: i) Question paper consists of Part A, Part B.

ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.

iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART – A

(25 Marks)

- 1.a) Why do we need data preprocessing? [2]
- b) What are major issues in data mining? [3]
- c) What is SPM? [2]
- d) List and explain the measures required for mining interesting association rules. [3]
- e) What is bayes theorem? [2]
- f) What is tree pruning? [3]
- g) What is manhattan distance measure? [2]
- h) When do you say an object is density reachable? [3]
- i) What is multimedia data? [2]
- j) How text mining is performed? [3]

PART – B

(50 Marks)

2. What are various kinds of knowledge that can be extracted by data mining? Explain them. [10]
OR
3. What is noisy data? Explain how it is handled in data preprocessing stage. [10]
4. What is correlation analysis? Why is it required? What are various correlation measures? Explain them in detail. [10]
OR
- 5.a) What are multilevel association rules? What are different types of multidimensional association rules? Explain them.
- b) What are inter and intra dimensional association rules? Explain them. [5+5]
6. What is decision tree? Write down decision tree induction algorithm. Explain various attribute selection measure for decision tree induction. [10]
OR
7. What is rule based classification? What are various rule assessing measures? How conflict resolution is done in rule based classification? [10]

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8. Explain STING clustering algorithm.

[10]

OR

9. Explain DENCLUE algorithm for clustering.

[10]

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10. Explain how mining can be performed on stream data.

[10]

OR

11. Write a short note on mining World Wide Web.

[10]

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