



Code No: 844AD

R17

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

MCA IV Semester Examinations, April/May - 2019

DATA WAREHOUSING AND DATAMINING

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) What is a pattern? What are the characteristics of an interesting pattern? [5]
- b) Compare and contrast database management system with data warehouse. [5]
- c) What characteristics of neural networks make them good classifiers? [5]
- d) Give the advantages and disadvantages of partition based methods for clustering. [5]
- e) Provide examples for spatial and non-spatial data in database. [5]

PART - B**5 × 10 Marks = 50**

2. What is the need of preprocessing of data for mining? Briefly explain various forms of preprocessing. [10]

OR

3. Discuss the major issues pertaining to mining methodology and user interaction in data mining. [10]

4. Illustrate online analytical processing operations. [10]

OR

5. Demonstrate the working of BUC algorithm for data cube computation. [10]

6. What are the limitations of Apriori algorithm? Suggest mechanisms to improve the accuracy of Apriori algorithm. [10]

OR

7. Consider the following data and classify the new sample X= < youth, medium, yes, fair> using Naïve Bayesian classification. [10]

RID	Age	Income	Student	Credit rating	Class: buys computer
1	Youth	High	No	Fair	No
2	Youth	High	No	excellent	No
3	Middle aged	High	No	Fair	Yes
4	Senior	Medium	No	Fair	Yes
5	Senior	Low	Yes	Fair	Yes
6	Senior	Low	Yes	excellent	No
7	Middle aged	Low	Yes	excellent	Yes
8	Youth	Medium	No	Fair	No
9	Youth	Low	Yes	Fair	Yes
10	Senior	Medium	Yes	Fair	Yes
11	Youth	Medium	Yes	excellent	Yes
12	Middle aged	Medium	No	excellent	Yes
13	Middle aged	High	Yes	Fair	Yes
14	Senior	Medium	No	excellent	No



- 8.a) What is ϵ - neighbourhood in density based methods?
b) List the challenges raised by high dimensional data for clustering. [5+5]

OR

9. Write BIRCH algorithm. Does BIRCH follow agglomerative nesting? Justify your answer. [10]
10. What is the importance of sequence mining? Explain Prefix Span algorithm for sequence mining. [10]

OR

11. Demonstrate Latent semantic indexing for text mining with simple example text corpus. [10]

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