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Code No: 844AD

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.

PART - B

 $5 \times 10 \text{ Marks} = 50$

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]

[10]

[5]

OR

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

Tail vising Naive Bayesian classification.									
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				



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8.a)	what is E-	neighbourho	ood in de	ensity basec	i 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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