

Code No: 814BD

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# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA IV Semester Examinations, June/July - 2018 DATA WAREHOUSING AND DATA MINING

Time: 3 Hours Max. Marks: 60

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 8 marks and may have a, b, c as sub questions.

### PART - A

 $5 \times 4$  Marks = 20

1.a) What are the characteristics of an interesting pattern? [4]
b) What is meant by multi dimensional data model? [4]
c) Give examples for a single dimensional association rule and a quantitative multidimensional association rules. [4]
d) What are the accuracy measures for a classifier? [4]
e) List the merits and demerits of hierarchical agglomerative clustering. [4]

## PART - B

 $5 \times 8 \text{ Marks} = 40$ 

- What is data mining? Explain it as a step in knowledge discovery process.
- Demonstrate attribute subset selection as a preprocessing technique. [8]
- Define data warehouse. Compare it with database management systems. [8]

ΩD

- Explain BUC algorithm for data cube computation. [8]
- Using FP Growth algorithm find frequent item sets(support threshold 30%) for the following data: [8]

TID	List of Items
1	Pen, eraser, marker, calculator, drafter
2	Pencil, marker, eraser, cutter
3	Pen, Pencil, eraser, A4 papers
4	A4 papers, CD, marker
5	Pencil, eraser, stapler, marker
6	Pen, eraser, sharpener, calculator
7	A4 papers, Pencil, eraser
8	Calculator, drafter, Pen
9	Pen, Pencil, CD, A4 papers.

#### OR

 What is correlation analysis? Explain the significance of lift measure for correlation analysis. [8]





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- How to prepare data for classification? Explain with suitable data set.
   OR
- What are the characteristics of neural network that make a good classifier? Describe back propagation algorithm. [8]
- Explain k-means algorithm and contrast it with k-medoid algorithm. [8]
- What is an outlier? What is the need of outlier detection? Explain any one technique for outlier analysis.

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