

www.FirstRanker.com

www.FirstRinker.com

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

Time: 3 Hours

Code No: 814BD

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

5×4 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 | 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

5×8 Marks = 40

| 2. | What is data mining? Explain it as a step in knowledge discovery process. | [8] |
|----|---|-----|
| | OR | |
| 3. | Demonstrate attribute subset selection as a preprocessing technique. | [8] |
| 4. | Define data warehouse. Compare it with database management systems. | [8] |
| 5 | OR Explain BLIC algorithm for data cube computation | [8] |
| 5. | Explain DOC argonalin for data cube computation. | [0] |

6. 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

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

www.FirstRanker.com

Max. Marks: 60



www.FirstRanker.com

8. How to prepare data for classification? Explain with suitable data set. [8]

OR

- 9. What are the characteristics of neural network that make a good classifier? Describe back propagation algorithm. [8]
- 10. Explain k-means algorithm and contrast it with k-medoid algorithm. [8]

OR

11. What is an outlier? What is the need of outlier detection? Explain any one technique for outlier analysis. [8]

---00000----

www.firstRanker.com