Code No: 814BD

R13

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**
**MCA IV Semester Examinations, August - 2017**
**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 × 4 Marks = 20

| | | |
|---|---|---|
| 1.a) | Explain data mining functionalities. | [4] |
| b) | What is data mart explain with example? | [4] |
| c) | What is the set of closed item sets? | [4] |
| d) | Differentiate classification and prediction. | [4] |
| e) | Explain outlier analysis. | [4] |

## PART - B

5 × 8 Marks = 40

| | | |
|---|---|---|
| 2.a) | Explain descriptive data summarization with suitable examples. | |
| b) | Explain applications of data warehousing. | [4+4] |

**OR**

| | | |
|---|---|---|
| 3.a) | Explain how to integrate data mining system with database or data warehouse system? | |
| b) | Discuss concept hierarchy in brief. | [4+4] |

| | | |
|---|---|---|
| 4. | Explain a multi tired architecture of data warehouse with neat diagram. | [8] |

**OR**

| | | |
|---|---|---|
| 5.a) | Discuss discovery driven exploration of data cubes with example. | |
| b) | Explain iceberg cube in detail. | [5+3] |

| | | |
|---|---|---|
| 6. | Explain AProiry algorithm to generate frequent item sets with suitable example. | [8] |

**OR**

| | | |
|---|---|---|
| 7. | Discuss mining frequent item sets without candidate generation with suitable example. | [8] |

| | | |
|---|---|---|
| 8. | Explain Naïve Bayesian classifier with suitable example. | [8] |

**OR**

| | | |
|---|---|---|
| 9.a) | Explain different methods for evaluating accuracy of a classifier or predictor. | |
| b) | Explain rule based classification with suitable example. | [4+4] |

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|---|---|---|
| 10.a) | Explain partitioning around mediods with suitable example. | |
| b) | Explain constraint-Based cluster analysis. | [4+4] |

**OR**

| | | |
|---|---|---|
| 11.a) | Explain over all frame work of chameleon. | |
| b) | Discuss wavelet transformation based clustering. | [4+4] |