

R13

Code No: 814BD

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 tiered 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]
- 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]