Roll No. _____   Total No of Pages: 2

7E7033

7E7033

B. Tech. VII Sem. (Back) Exam., Nov.-Dec.-2016
Computer Science & Engineering
7CS3A Data Mining and Warehousing

Time: 3 Hours   **Maximum Marks: 80**
                                           Min. Passing Marks Main : 26
                                           Min. Passing Marks Back: 24

Instructions to Candidates:

*Attempt any **five questions**, selecting **one question** from **each unit**. All questions carry **equal** marks. Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly.*

Units of quantities used/calculated must be stated clearly.

Use of following supporting material is permitted during examination. (Mentioned in form No. 205)

1. NIL _____   2. NIL _____

UNIT – I

Q.1 (a) Describe Data Integration and Transformation in detail.   [10]

     (b) Write short note on Dimensionality reduction.   [6]

OR

Q.1 What is Date Mining and Warehousing? Explain the forms of Data Preprocessing along with Data Cleaning.   [16]

UNIT – II

Q.2 Explain the concepts of Data Association and Data Generalization in detail along with analysis of attribute relevance.   [16]

OR

Q.2 Explain following:

   (a)   Association Rule Mining   [8]

   (b)   Statistical Measures in large databases   [8]

UNIT – III

Q.3 Write and explain the concept of classification and prediction along with various issues incorporated with them.   [16]

OR

Q.3 (a) Explain density based method in cluster analysis.   [8]

    (b) Explain various categories of clustering methods.   [8]

UNIT – IV

Q.4 (a) Write and explain the differences between database systems and data warehouse.   [8]

    (b) Explain Multidimensional Data Model in detail.   rtuonline.com   [8]

OR

Q.4 Write short notes on:

   (a) Data Cubes   [4]

   (b) Fact Constellations   [4]

   (c) Concept hierarchy   [4]

   (d) Process Architecture   [4]

UNIT – V

Q.5 Explain OLAP Servers along with OLAP function and tools in detail.   [16]

OR

Q.5 (a) Differentiate ROLAP, MOLAP & HOLAP in detail.   [8]

    (b) Explain the concept of Tuning Data Warehouse & Testing Data Warehouse   [8]