D 52699 (Pages 2) Name....................................

Reg. No. . . . .

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, FEBRUARY 2009

Computer Science

CS 305 D—DATA WAREHOUSING AND MINING

(2005 admission onwards)

Time : Three Hours   Maximum : 80 Marks

Part A

Answer any **five** *questions.*
Each question carries 8 *marks.*

1. Explain the three possible approaches to Data Warehousing.

2. (a) What is R-OLAP ? How is it different from Multidimensional OLAP ?

    (5 marks)

    (b) List the functional characteristics of MD-OLAP.   (3 marks)

3. Data Warehouse is said to be *Subject oriented, time-varying and non-volatile.* Explain.

4. (a) What is Data Mining ?   (3 marks)

    (b) Explain *Data Characterization and Data Discrimination.*   (5 marks)

5. (a) Explain "concept description".   (4 marks)

    (b) Write short note on "attribute oriented distribution".   (4 marks)

6. Give a brief account of "Mining descriptive Statistical Measures in Large Databases".

7. Discuss Data Mining System Products and Research.

    (5 x 8 = 40 marks)

Part B

Answer any **four** *questions.*
Each question carries 10 *marks.*

8. (a) Discuss the different Dimensions of a Data Warehouse Environment Architecture.

    (b) Discuss objectives and base techniques of requirements modeling.

    (5 + 5 = 10 marks)

9. (a) Explain Base techniques for Temporal Data Modeling.

    (b) Discuss Multidimensional Data Analysis.   (5 + 5 = 10 marks)

Turn over

10. (a) What is Data Cleaning ?

    (b) With example explain Snowflake and Star models.

    (c) Explain the steps needed for a successful Data Mining run.

                                                          (2 + 5 + 3 = 10 marks)

11. (a) Discuss the classification of Data Mining systems.

    (b) Explain "Sequential Pattern Detection".   (7 + 3 = 10 marks)

12. Discuss in detail "Analysis of Attribute Relevance".

13. Discuss trends in Data Mining.

                                                          (4 x 10 = 40 marks)