

D 41785

Name.....

Reg. No.....

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, FEBRUARY 2008

Computer Science Electives

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. **What is a data Mart ? What are the characteristics of it ?**
2. Write note on (i) Warehouse Catalogue and (ii) Data Transport and Transformation.
3. (a) What is **MD-OLAP** ? **How is it different from R-OLAP ?** (5 marks)
(b) **List the functional characteristics of R-OLAP.** (3 marks)
4. (a) What is Association Analysis ? (3 marks)
(b) Explain Cluster Analysis and Outlier Analysis. (5 marks)
5. Discuss the following Data Mining Techniques :
 - (i) Automatic cluster Detection.
 - (ii) Similar Time Sequence Detection. (4+4 = 8 marks)
6. Discuss in detail attribute removal and attribute generalization.
7. Discuss trends in Data Mining. (5 x 8 = 40 marks)

Part B

Answer any **four** questions.

Each question carries **10** marks.

8. (a) Explain how data Warehouse can be used in Decision Support Processing.
(b) Discuss in detail the four base characteristics of Data Warehouse. (4+6 = 10 marks)
 9. Describe the requirement analysis using **MDDM** techniques.
 10. (a) Distinguish between **OLAP** and **OLTP** ? (3 marks)
(b) What is Meta Data ? (2 marks)
(c) Compare "**lassification**" and "Prediction". (5 marks)
 11. (a) What are the differences between concept description in large databases and online analytical processing ? (5 marks)
(b) Write note on "attribute oriented distribution". (5 marks)
 12. Discuss "Mining Descriptive Statistical Measures in Large Databases"
 13. (a) Discuss Social Impact of Data Mining. (5 marks)
(b) Write note on Visual and Audio Data Mining. (5 marks)
- (4 x 10 = 40 marks)