

D 28427

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Name

Reg. No.

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, FEBRUARY 2007

Computer Science

CS 305 D—DATA WAREHOUSING AND MINING (Elective)

(2005 admission onwards)

Time : Three Hours

Maximum : 80 Marks

Part A

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

1. (a) Define Data Warehouse. List the characteristics and properties of it.
(b) Why Data Warehouse is said to be non-volatile ?
(6 + 2 = 8 marks)
2. Explain Temporal Data Modelling.
3. (a) What is Meta Data repository and what does it contain?
(b) What are the different types of Meta Data?
4. Explain the following Data Mining Techniques:
(i) Classification. (ii) Association Detection. (4 + 4 = 8 marks)
5. (a) Explain any one Application domain of Data Mining.
(b) How is class comparison performed?
(4 + 4 = 8 marks)
6. Discuss Attribute Oriented **Induction**.
7. Discuss social impacts of Data Mining.
(5 x 8 = 40 marks)

Part B

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

8. (a) List different types of Data warehouse usage.
(b) Describe "Data Granularity Model".
(4 + 6 = 10 marks)
9. Give a detailed account of the five *Base elements* of Multidimensional data model.

Turn over

10. (a) What is Data Cleaning ?

(b) Explain the following terms :

(i) Slice-dice analysis.

(ii) Drill-down and roll-up analysis.

(c) Define Data Mining. List the major application Domains of Data Mining.

(2 + 2 + 4 = 8 marks)

11. Describe Data Mining Functionalities.

12. Discuss why analytical characterization is needed and how it can be performed.

13. Write note on:

(i) Visual and Audio Data Mining.

(ii) Scientific and statistical Data Mining.

(4 x 10 = 40 marks)