E 8233

M.C.A. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2005.

Fourth Semester

CA 242 — ADVANCED DATABASES

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is the advantage of having stored procedures?

2. What is meant by decision support system?

3. What is the difference between Interquery and Intraquery parallelism?

4. Explain the network transparency issue in distributed query processing.

5. What is the concept of concurrency control?

6. What is meant by grid files in spatial databases?

7. What are some common use of web data?

8. What do you mean by similarity–based retrieval?

9. Explain the issues involved in object oriented query processing.

10. What are the applications of Data Mining?

PART B — (5 × 16 = 80 marks)

11. (i) Explain about Stored Procedures, Triggers, and Rules. (8)

(ii) Explain the need for database connectivity and the complete design overview of ODBC. (8)

12. (a) (i) Explain the distributed query processing issues in detail. (10)

(ii) What is the drawback of two phase commit protocol? How is it overcome? (6)

Or

(b) (i) What is the problem with Null values in designing the database? (4)

(ii) Discuss various deadlock handling mechanisms. (12)

13. (a) Explain the features of Deductive Databases in detail. (16)

Or

(b) Explain the architectures importance of Multimedia Databases and its applications. (16)

14. (a) Explain the features query language and query processing. (16)

Or

(b) Explain the features of object relational database in detail. (16)

15. (a) (i) Explain the architecture of data warehouse. (8)

(ii) Explain how Data warehouses help to gather and archive important operational data. (8)

Or

(b) (i) Explain various applications types and issues of data mining. (8)

(ii) Define association rules. What is meant by support count and confidence? Give examples. (8)
