

15093 N

M.Sc. DEGREE EXAMINATION, OCTOBER / NOVEMBER 2018.

FIRST SEMESTER

Computer Science

Paper III - DATA BASE MANAGEMENT SYSTEM

Time : Three hours

Maximum : 75 marks

(No additional sheet will be supplied)

PART A — (5 × 3 = 15 marks)

Answer any FIVE questions.

Each question carries 3 marks.

Each answer should not exceed 1 page.

1. Illustrate the structure of data base systems.
2. List and describe the applications of Data Base Management Systems.
3. What is the basic structure of SQL.
4. Describe the DML commands.
5. What is RAID and specify its advantages.
6. Write a short note on file organization.
7. What is concurrency control.
8. Describe the concept of transaction.

PART B — (4 × 15 = 60 marks)

Answer ALL questions.

Each question carries 15 marks.

Each answer should not exceed 6 pages.

9. Differentiate and explain about Data Base Management Systems and file system.

Or

10. Discuss about the various data models.

11. What is normalization? Explain about different normal forms with an example.

Or

12. Explain any five SQL functions with syntax and example.

13. Explain about query processing and query optimization with a diagram and example.

Or

14. What is hashing? explain about static and dynamic hashing with an example.

15. What is deadlock? How to handle deadlocks.

Or

16. Explain the following

(a) Buffer Management

(b) Shadow Paging

(c) Recovery Systems

