15094

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

FIRST SEMESTER

ADBMS

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. What is the use of UML Diagrams?
2. What is data modeling?
3. What is concurrency control?
4. What is transaction processing?
5. What is an object database?
6. What is a relational system?
7. Give a note on XML.
8. Differentiate between security and authorization.

PART B — (4 × 15 = 60 marks)

Answer ALL questions.

Each question carries 15 marks.

Answer ONE question from each Unit.

Each answer should not exceed 6 pages.

UNIT I

9. Explain the concept of relational database design by ER modeling with an example.
10. Discuss about the various UML diagram and their significance.

UNIT II

11. Explain the techniques of concurrency control in transaction processing.
12. Explain the various data base recovery techniques.

UNIT III

13. What are the standards, languages and design of object databases? Explain.

14. Differentiate and the object relational and extended relational systems.

UNIT IV

15. Write a short note on the following :
    (a) Distributed data bases
    (b) Client /server architectures.

16. What are XML and internet databases? Explain.
