

[BS - S 3117]

B.Sc. (CBCS) DEGREE EXAMINATION.

Fifth Semester

Computer Science

Paper V — DATABASE MANAGEMENT SYSTEMS

(w.e.f. 2015–2016 A.B.)

Time : Three hours

Maximum : 75 marks

SECTION A — (5 × 5 = 25 marks)

Answer any FIVE questions.

1. Explain the Components Database System.
2. Explain situation where DBMS is not necessary.
3. Explain attribute inheritance in EER modeling.
4. Explain the advantages of ER Modeling.
5. Explain about tuple relational calculation.
6. Explain different aggregate functions supported in SQL.
7. Explain about DML.
8. Explain different control structures in PL/SQL.

2021/4/3 09:02

SECTION B — (5 × 10 = 50 marks)

Answer ALL questions.

UNIT I

9. Explain the different data models in detail.

Or

10. Explain the Architecture and Components of Database Systems in detail.

UNIT II

11. Draw an ER Model for College Management System in detail.

Or

12. Explain about specialization, generalization, aggregation and composition in Enhanced Entity Relational Modeling in detail.

UNIT III

13. Explain Dr. E.F. Codd Rules in detail.

Or

14. What is Relational Algebra? Explain different Relational Algebra operators in detail.

UNIT IV

15. What is DDL? Explain different constraints imposed on DDL commands in detail.

Or

16. What is Join Operations? Explain different types of Joins in detail.

UNIT V

17. Define Exception. Explain Exception Handling in PL/SQL in detail.

Or

18. Define Cursor. Explain the types of Cursors in detail.
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- S 3117]