

1457**Code : 15CS33T***Register
Number*

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III Semester Diploma Examination, Nov./Dec. 2016
DATABASE MANAGEMENT SYSTEM

Time : 3 Hours]**[Max. Marks : 100**

- Note :** (i) Answer any **six** questions from Part-A. [5 marks each]
(ii) Answer any **seven** questions from Part-B. [10 marks each]

PART – A

Note : Answer any **six** questions. Each carries **5** marks.

5 × 6 = 30

1. Explain 3-level schema architecture of Database system.
2. Define :
 - (a) Entity Integrity &
 - (b) Referential Integrity constraints.
3. Explain update operations.
4. Explain CREATE & ALTER command with examples.
5. Illustrate view with examples.
6. Explain functional dependencies.
7. Illustrate second normal form with examples.
8. Explain properties of transaction.
9. Explain the advantages of distributed computing.

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PART – B

Note : Answer any **seven** full questions. Each carries **10** marks.

10 × 7 = 70

10. Explain the actors on the scene and workers behind the scene.
 11. Define the following :
 - (i) Data Model
 - (ii) Database Schema
 - (iii) DML
 - (iv) DCL
 - (v) DDL
 12. Design E-R diagram for a company database using suitable entity and relationship.
 13. Explain different types of entity and attributes with examples.
 14. Consider suitable schema and write the SQL queries :
 - (i) Retrieve the name and address of all employees who work for the 'Research' Dept.
 - (ii) Find sum of salaries of all the employees and find the maximum and minimum salary of employee.
 - (iii) Retrieve the number of employees in Maintenance Department.
 - (iv) Retrieve the names of employees who have no dependent.
 - (v) Retrieve all employees in department-5 & whose salary is between 15000 & 30000.
 15. List and explain the different aggregate functions available in SQL with examples.
 16. Write Informal design guidelines for relation schema.
 17. Draw a state transition diagram of a transaction and explain each state.
 18. Explain insert, delete operations with examples in Relational Model.
 19. Describe SQL statement SELECT with all clauses.
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