BCA – 43

IV Semester B.C.A. Examination, Feb./March 2010
RDBMS

Time : 3 Hours Max. Marks : 80

***Instructions**: 1) Answer **all** questions in Part **A**, **6** out of **8** questions in Part **B**, and **3** out of **5** questions in Part **C**.*
*2) Part **A**: Questions from **1** to **8** carry **1** mark and **9** to **14** carry **2** marks each.*
*3) Part **B**: **Each** question carries **5** marks.*
*4) Part **C**: **Each** question carries **10** marks.*

PART – A

1. What is a Database?
2. What is Information?
3. Define Data Redundancy.
4. What is an Attribute?
5. Define conceptual view of data.
6. Who invented Relational model?
7. What is hierarchical model?
8. Define DDL.
9. What are Homogeneous and Heterogeneous databases?
10. How to avoid Redundancy ?
11. What are centralized systems ?
12. How to name Data objects ?
13. What are the indivisible steps of transaction ?
14. Write the rules about functional dependencies ?

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PART – B

1. What are the disadvantages of file oriented approach?
2. Explain the different elements of E/R model.
3. What are the characteristics of client/server application?
4. What is the comparison between BCNF and 3NF ?
5. Explain DDL statements.
6. What is the difference between 4NF and 5NF ?
7. Write One-Pass algorithm for Database operations.
8. How does parsing work?

PART – C

1. Explain the basic algorithms for executing querry operations.
2. Describe the Algebraic laws for improving querry plans.
3. How to manage hierarchies of database elements ?
4. Explain ACID properties of a transaction.
5. Explain the types of Network.

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