

II Semester B.C.A. Examination, June/July 2011
DATABASE MANAGEMENT SYSTEMS

Time : 3 Hours

Max. Marks : 75

Instructions : 1) Answer *all* questions in Part – A.
2) Answer *any five* questions in Part – B.

PART – A

(12×2+1×1=25)

1. What is foreign key ?
2. What is the difference between candidate key and super key ?
3. Define schema.
4. What are key and non-key attributes ?
5. What is relational calculus ?
6. What is view ?
7. What is a primary key ? Give an example.
8. What is data dictionary ?
9. What is a referential integrity ?
10. Differentiate DDL and DML.
11. What is SQL ? What are the characteristics of SQL ?
12. What is cursor ?
13. What is B tree ?

P.T.O.

PART – B

(10×5=50)

1. Explain the 3 schema architecture of DBS. Why do we need mappings between different schema levels ? How do different schema definition languages support this architecture ?
 2. What is query processing ? What is query transformation ? Define Merge Join and Hash Join.
 3. Explain various DML commands with neat syntax.
 4. Explain in detail any two data models with sample databases.
 5. What do you mean by data models ? Explain network, hierarchical and relational model in detail.
 6. What is B+ tree index ? Explain with an example.
 7. Define BCNF. How does it differ from 3NF ?
 8. Explain the 4NF and 5NF.
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