Total No. of Questions : 9]   [Total No. of Printed Pages : 3

(1048)

BCA (CBCS) RUSA IInd Semester Examination

4031

DATABASE MANAGEMENT SYSTEM
Paper : BCA-0205

Time : 3 Hours]   [Maximum Marks : 70

Note :– Select *one* question from each Unit II, III, IV and V. Unit–I is compulsory,

Unit–I

(Compulsory Question)

1. Attempt any *seven* :

   (i)   What is data and information ?

   (ii)   What is Primary key ?

   (iii) What is a direct file ?

   (iv)   What is difference between file oriented and DBMS approach ?

(v) What is a query ? Write all its types.

(vi) What is the need of normalization ?

(vii) Define data integrity.

(viii) What is an attribute and tuple ?

(ix) Describe DML statement is SQL.

(x) Describe the types of relational calculus. 7×2=14

Unit–II

2. What do you mean by data modeling for a database ? Discuss data Abstraction and data integration with suitable example.

3. What is E-R model ? Discuss the various shapes used to draw E-R diagram with the help of one suitable example. 14 each

Unit–III

4. What is file ? Discuss various methods of file organization with the help of suitable example.

5. What is a relation ? How do you define relational database ? Discuss degree and cardinality of a relation with the help of suitable example. Explain Join operation. 14 each

Unit–IV

6. What is normalization ? Define 3NF and BCNF explaining their pre-conditions. Give suitable examples.

7. Write short notes on the following :

   (i) Multivalued Dependency.

   (ii) Relational Database design.   14 each

Unit–V

8. What is master-detail table ? How primary and foreign keys are related to each other ? Discuss their usage in master-detail table by giving suitable example.

9. Discuss with example the process of creating a form by using a wizard.   14 each