

Roll No.

Total No. of Questions : 9]
(1048)

[Total No. of Printed Pages : 3

**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 ?

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Turn Over

- (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

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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

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