

Unit-V

14 each

8. (a) Explain some important features of MS-ACCESS.
- (b) What is Form ? How 'Modal' and 'Modeless' forms are implemented ? Explain.
9. (a) Explain 'Make-table', 'Update' and 'Append' operations through suitable examples.
- (b) What is Report ? Create a simple report from a table of database of your choice.

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Roll No.

Total No. of Questions : 9]
(1049)

[Total No. of Printed Pages : 4

**BCA (CBCS) RUSA IIInd Semester
Examination**

4389

DATABASE MANAGEMENT SYSTEM

Paper : BCA-0205

Time : 3 Hours]

[Maximum Marks : 70

Note :- Attempt five questions in all. Unit-I is compulsory.
Select *one* question from each of the Units-II, III, IV and V.

Unit-I

(Compulsory Question)

7x2=14

1. Attempt any *seven* parts :
- Explain the following :
- (i) Field and Records
- (ii) Data Abstraction

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- (iii) Primary key and Foreign key
- (iv) Entity and Attributes
- (v) Direct Files
- (vi) Relation Scheme
- (vii) Master-detail Table
- (viii) Query
- (ix) Dependency preservation
- (x) Tuple

Unit-II

14 each

2. (a) What is Data-base ? Explain its architecture in detail along with its advantages and disadvantages.
- (b) Define Data-model. Give its classification with examples.
3. (a) What is DBMS ? Explain the structure of DBMS. Also explain its importance and limitations.
- (b) Compare File-based, semantic and Entity-relationship models.

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Unit-III

14 each

4. (a) Define File. Explain its various operations along with its types.
- (b) Write short note on 'Relational Algebra' and 'Relational Calculus.'
5. (a) What is Indexing ? Explain the various types of indexes in detail.
- (b) What is Relational Model ? How is it implemented ? Explain through example.

Unit-IV

14 each

6. (a) What is Normal Form ? Explain third and Boyce Code with suitable examples.
- (b) Define Dependency. Explain functional and Multi-valued dependency in detail.
7. (a) Explain through short notes on the following :
 - (i) Relational Data-base Design
 - (ii) Decomposition
- (b) What is Normalisation ? Define 2NF and 3NF explain their pre-condition through suitable examples.

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Turn Over