

9. Create a table with the following fields using query of MS Access :

Roll No.	-	Integer
Name	-	String
Age	-	Integer
Sex	-	Logical (M/F)
Weight	-	Real

Also write a query to insert data in the table.

14

Regular
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Roll No. 760130023

Total No. of Questions : 9]
(1047)

[Total No. of Printed Pages : 4

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

3761

Database Management System

Paper : BCA-205

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* :

- Define Database system.
- What is an Attribute and Triple ? Explain with example.
- Define Data independence.

C-540

(1)

Turn Over

540

(4)

- (iv) What is ER diagram ? Explain with an example.
- (v) What is SQL ? Explain.
- (vi) What is Join ? Explain its types.
- (vii) What is meant by log base recovery ?
- (viii) What are integrity constraints ? Explain.
- (ix) What are weak entities ? How are they different from strong entity ?
- (x) Who is DBA ? Explain his role in database management. 7×2=14

Unit-II

- 2. What is DBMS ? Explain three level of architecture with diagram.
- 3. What are data models ? Compare and contrast hierarchical, network and relational data models. 14

Unit-III

- 4. How do you define a file and its organization ? Discuss various operations, that can be performed on a file.

C-540

(2)

- 5. What is Relational Algebra ? How is it different from Relational Calculus ? Explain the following operations in relational algebra by suitable example :

- (i) Projection
- (ii) Division
- (iii) Join
- (iv) Minus

14

Unit-IV

- 6. Why normalization is needed ? Explain 1NF, 2NF and 3NF by giving suitable example.
- 7. What is Relational Scheme ? How do you define functional dependency ? Explain with the help of suitable example. Also discuss various types of data constraints. 14

Unit-V

- 8. How can you define Relationship in database ? Describe the process of setting relationship among various tables in MS Access.

C-540

(3)

Turn Over