

**A-804**

Total Pages : 3

Roll No. ....

**BCA-09**

**Bachelor of Computer Application (BCA)**

**(Database Management System)**

3rd Semester Examination, 2024 (June)

Time : 2:00 Hrs.

Max. Marks : 70

*Note :-* This paper is of Seventy (70) marks divided into Two (02) Sections ‘A’ and ‘B’. Attempt the questions contained in these Sections according to the detailed instructions given therein. *Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.*

**Section–A**

**(Long Answer Type Questions)      2×19=38**

*Note :-* Section ‘A’ contains Five (05) Long-answer type questions of Nineteen (19) marks each. Learners are required to answer any *two* (02) questions only.

1. Explain the types of database recovery.
2. What is normalization ? Explain various types of normal forms with examples.
3. What are the characteristics of SQL ? Explain DDL and DML with examples.
4. Explain the different types of DBMS.
5. Write short note on following :
  - (a) ER diagram
  - (b) DBMS Vs. RDBMS
  - (c) Merits and demerits of DBMS
  - (d) Distributed database system.

### **Section–B**

**(Short Answer Type Questions)      4×8=32**

**Note :-** Section ‘B’ contains Eight (08) Short-answer type questions of Eight (08) marks each. Learners are required to answer any *four* (04) questions only.

1. Define functional dependency. Why it is required ?
2. What is Key ? Difference between candidate key and Super Key.
3. Describe conceptual, logical and physical data model.
4. What is Referential Integrity ? Explain with example.

5. Explain Codd's rules for RDBMS.
6. What do you mean by integrity constraint ?
7. What is DBMS ? What is Data Redundancy ? Explain properties of DBMS.
8. Explain the following terms :
  - (i) Components of DBMS
  - (ii) Role of database administrator

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