

Total No. of Questions : 11]

[Total No. of Printed Pages : 3

JSB-1036**B.C.A. (IInd Semester) Examination, June-2025****DBMS**

Paper - BCA 4.5 DCCT-23

Time : 3 Hours]

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[Maximum Marks : 80

Section-A

(Marks : 1 × 10 = 10)

Note :- Answer all *ten* questions. Questions (i) to (v) are multiple choice questions, while questions (vi) to (x) are fill in the blank questions. Each question carries 1 mark.

Section-B

(Marks : 5 × 5 = 25)

Note :- Answer all *five* questions. Each question has internal choice (Answer limit 150 words). Each question carries 5 marks.

Section-C

(Marks : 15 × 3 = 45)

Note :- Answer any *three* questions out of five (Answer limit 400 words). Each question carries 15 marks.

Section-A

1. (i) What is the full form of DBMS ?
 - (a) Database Management System
 - (b) Data Management System
 - (c) Data Managing System
 - (d) Database Managing System

- (ii) Unique identifier for a record is called :
- (a) Field
 - (b) Key
 - (c) Row
 - (d) Column
- (iii) The language used to manipulate data in a DBMS :
- (a) DML
 - (b) DDL
 - (c) DCL
 - (d) TCL
- (iv) A column in a table is also called :
- (a) Row
 - (b) Tuple
 - (c) Field
 - (d) Record
- (v) A command to add new data to a table :
- (a) Select
 - (b) Insert
 - (c) Update
 - (d) Delete
- (vi) A collection of related data organized in rows and columns is called
- (vii) The process of eliminating redundancy in a database is called
- (viii) A key links tables in a database.
- (ix) The command in SQL modify existing data.
- (x) The command in SQL is used to retrieve data from a database.

Section-B

2. Write advantages and limitations of DBMS.

Or

Explain different types of data models.

3. Explain entity integrity and referential integrity.

Or

Explain various keys in a database.

4. Write a note on SQL data types.

Or

Explain any *five* command of SQL using suitable example.

5. What is Functional Dependency ? Explain.

Or

Explain the concept of serializability.

6. Write a note on database recovery.

Or

Explain *two* phase locking.

Section-C

7. Explain ER diagram in detail.

8. Explain different types of join operations in a relational model.

9. What is Trigger ? Explain in detail.

10. What is Normalization ? Explain various normal forms with example.

11. Write a detailed note on concurrency control.