

SAC/Printed Pages:03

713021

**BCA THIRD SEMESTER EXAMINATION
DECEMBER-2024
PAPER - DATABASE MANAGEMENT SYSTEM
(MINOR)**

Time: 3hrs. Max. Marks:60

Note - All questions are compulsory. Marks are indicated against each section.

Section – A (Objective Type Questions)

- Q.1. Choose the correct option: $(1 \times 5 = 5)$
- (i) Which of the following is the full form of DDL?
 - (a) Data Definition Language
 - (b) Data Derivation Language
 - (c) Dynamic Data Language
 - (d) Detailed Data Language
 - (ii) Rectangles in ER diagram represents?
 - (a) Tables
 - (b) Attributes
 - (c) Tuples
 - (d) Entity Sets
 - (iii) Select the relational Algebra Operations?
 - (a) Union
 - (b) Select
 - (c) Rename
 - (d) All of the above
 - (iv) Select the correct foreign key constraints?
 - a) Referential Integrity
 - b) Entity Integrity
 - c) Domain Integrity
 - d) None of the above
 - (v) Which section does not belong to PL/SQL block
 - a) begin
 - b) exception
 - c) declare
 - d) environment

P.T.O

Section – B (Short Answer Type Questions)

(5x 4 = 20)

- Q.2. Explain ACID properties with suitable example.

OR

Explain DBMS and also brief about Conceptual, Logical and physical database models.

- Q.3. Explain ER model with example.

OR

Explain 3NF and BCNF with example.

- Q.4. Explain selection and projection with example.

OR

Explain set operations with example.

- Q.5. Explain with example SUM, AVG, COUNT and MAX Command.

OR

Explain queries and subqueries with example.

- Q.6. Explain local procedure with example.

OR

Explain if, case and loop statement in PL/SQL.

Section – C (Long Answer Type Questions)

(5 x 7 = 35)

- Q.7. What is data and write characteristics of data in database.

OR

Explain role of DBA in database.

- Q.8. What is fictional dependency? Explain trivial, multivalued and transitive dependency with example.

OR

Explain ER Model with example.

//3//

Q.9. Explain tuple relational calculus with example.

OR

Explain all join operations in relational algebra.

Q.10. Explain database changes operations INSERT, UPDATE and
DELETE command.

OR

Explain GROUP BY, ORDER BY and HAVING Clause with
example.

Q.11. What is database trigger? Explain with suitable example.

OR

What is cursor? Explain explicit cursor with their attributes.
