

B.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2023.

Fifth Semester

Computer Science – Core

RELATIONAL DATABASE MANAGEMENT
SYSTEMS

(For those who joined in July 2020 only)

Time : Three hours Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

- _____ leads to higher storage and access cost.
 - (a) Data Redundancy (b) Inconsistency
 - (c) Data Isolation (d) Atomicity Problem

- The _____ table command deletes all information about the dropped relation from the database.
 - (a) Delete (b) Drop
 - (c) Remove (d) Discontinue
- A table is in 3NF if it is in 2NF and if it has no _____.
 - (a) Functional Dependencies
 - (b) Transitive Dependencies
 - (c) Trivial Functional Dependency
 - (d) Multivalued Dependencies
- A table is in BCNF if it is in 3NF and if every determinant is a _____ key.
 - (a) Dependent
 - (b) Normal
 - (c) Candidate
 - (d) Both Normal and Candidate
- PL/SQL is a _____.
 - (a) Brick Structured Language
 - (b) Block Structured Language
 - (c) Banner Structured Language
 - (d) Build Structured Language

- The _____ model uses a collection of tables to represent both data and the relationships among those data
 - (a) ER (b) Relational
 - (c) Object Based (d) Network
- A set of permitted values, called the _____ of that attribute
 - (a) Degree (b) Domain
 - (c) Value (d) Sets
- The SQL _____ provides the ability to query information from the database and to insert tuples into, delete tuples from, and modify tuples in the database.
 - (a) DDL (b) DML
 - (c) DCL (d) DTL
- _____ is a fixed-length character string with user-specified length n
 - (a) Varcha (b) Char
 - (c) Character (d) Real

- A Variable in PL/SQL should not exceed _____.
 - (a) 10 (b) 20
 - (c) 30 (d) 40

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).
Each answer should not exceed 250 words.

- (a) Mention the Applications of Databases.
Or
(b) Write short note on Data- Manipulation Languages.
- (a) Differentiate Primary Key with Unique Key.
Or
(b) Write short notes on Relational Operation is SQL.
- (a) Write short notes on Null Values.
Or
(b) List out the Set Operations.

14. (a) Write Short notes on EER model.

Or

(b) Discuss about Partial Dependency.

15. (a) How to Set the Primary Key for Table?

Or

(b) Mention the Advantages of PL/SQL Functions.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b)
Each answer should not exceed 600 words.

16. (a) Discuss about Data Abstraction.

Or

(b) Write detail notes on Database Users and DBA.

17. (a) Describe — How to construct a Schema Diagram?

Or

(b) Describe about the SQL Data Definition.

18. (a) Discuss about Aggregate Functions.

Or

(b) Write detail notes on Integrity Constraints.

19. (a) Describe ER Model.

Or

(b) Explain about 1 NF and 2 NF.

20. (a) Write detail notes on PL/SQL.

Or

(b) Discuss about Stored Procedures in PL/SQL.