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N25DIIID37

**BCA (Semester-III) (NEP)
Examination, 2025-26**

Discipline Specific Core (DSC)

**RELATIONAL DATABASE
MANAGEMENT SYSTEM**

Time Allowed : Three Hours

Maximum Marks : 70

Note : This question paper is divided into two sections. Attempt questions of all two sections as per direction. Distribution of marks is given in each section.

SECTION-A

(Objective Type Questions)

Note : Attempt all questions. Each question carries 1 mark.

[10×1=10]

1. (i) Full form of DDL :
 - (a) Data Definition Language
 - (b) Data Description Language

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(1)

[P.T.O.]

- (c) Define Data Language
- (d) Data Delete Language
- (ii) Which operation is used to extract specified column from a table?
 - (a) Select
 - (b) Project
 - (c) Join
 - (d) Rename
- (iii) In functional dependency Armstrong inference rules refers to :
 - (a) Transitivity, Decomposition and Augmentation
 - (b) Reflexivity, Decomposition and Transitivity
 - (c) Reflexivity, Transitivity and Augmentation
 - (d) Augmentation, Decomposition and Reflexivity
- (iv) An Entity is a :
 - (a) Relational Model
 - (b) Attributes

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- (c) Relationship
- (d) Object in realworld
- (v) Which of the following command is used to delete a table in SQL?
 - (a) Delete
 - (b) Alter
 - (c) Remove
 - (d) Drop
- (vi) Data about Data is Called :
 - (a) Schema
 - (b) Metadata
 - (c) Table
 - (d) Column
- (vii) Duplication of Data is Known as :
 - (a) Data Integrity
 - (b) Data Consistency

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[P.T.O.]



- (c) Data Redundancy
- (d) Isolation
- (viii) Which of the following SQL Command is used to insert a new record into a table?
 - (a) Select
 - (b) Update
 - (c) Insert into
 - (d) Delete
- (ix) The Uniqueness of each row in a database table is ensured by :
 - (a) Foreign key
 - (b) Trigger
 - (c) Alternate key
 - (d) Primary key
- (x) In E-R Diagram, which symbol is used to represent a relationship :
 - (a) Diamond
 - (b) Ellipse
 - (c) Rectangle
 - (d) Triangle

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(Short Answer Type Questions)

Note : Attempt all five questions. Each question carries 4 marks. (Word limit 250 words) : [5×4=20]

2. (i) Explain the DBMS Architecture.
- (ii) What do you mean by Generalization and Specialization.
- (iii) Explain the Select and Project Operation.
- (iv) What is Database? Define Database Language.
- (v) Explain :
 - (a) Candidate key
 - (b) Schema

SECTION-B

(Long Answer Type Questions)

Note : Attempt one question from each unit. Each question out of two carries 10 marks. (Word limit 500 words) : [4×10=40]

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[P.T.O.]



Unit-I

3. What is Data Model? Explain with detail

OR

Explain role of Database Administrator and also explain types of database user.

Unit-II

4. What is E-R Model? Explain its components.

OR

Explain :

- (a) E-R Diagram
- (b) Different types of keys

Unit-III

5. Explain :

- (a) Functional Dependencies
- (b) Decomposition

OR

What is Normalization? Explain all the normal forms.

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Unit-IV

6. What do you mean by Transaction? Explain all the ACID properties.

OR

Explain :

- (a) Concurrency Control
- (b) Serializability

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