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**N25DIID37**



**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

(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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