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

(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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(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]

(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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Unit-I

3. What is Data Model? Explain with detail

OR

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

Unit-II

4. What is E-R Model? Explain it 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 form.

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Unit-IV

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

OR

Explain :

(a) Concurrency Control

(b) Serializability

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