

1811090101020001
EXAMINATION NOVEMBER 2024
POST GRADUATE DIPLOMA IN COMPUTER
APPLICATION (FIRST SEMESTER)
DATABASE MANAGEMENT SYSTEMS(DBMS) - LEVEL 2

[Time: As Per Schedule]

[Max. Marks: 70]

Instructions:

1. Fill up strictly the following details on your answer book

- a. Name of the Examination : **POST GRADUATE DIPLOMA IN
COMPUTER APPLICATION (FIRST SEMESTER)**
 - b. Name of the Subject : **DATABASE MANAGEMENT
SYSTEMS(DBMS) - LEVEL 2**
 - c. Subject Code No : **1811090101020001**
2. Sketch neat and labelled diagram wherever necessary.
 3. Figures to the right indicate full marks of the question.
 4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 Give Answers in brief. (Any 7)

14

[A] Define - instance and schema

[B] What is data model?

[C] Give full form of RDBMS, DML, DDL, TCL

[D] Define DBMS and RDBMS

[E] What is NULL value?

[F] Give difference between SQL statements - DROP and TRUNCATE.

[G] Write difference between PRIMARY KEY and UNIQUE KEY.

[H] What is data dictionary?

[I] Explain Domain constraint?

Q.2 Do as directed (Any 2)

14

[A] Discuss advantage of DBMS.

[B] What is 'primary key' and 'foreign key'? Also discuss the syntax for defining 'primary key' and 'foreign key' within SQL statement with proper example.

[C] Discuss one-to-many and many-to-one and many-to-many mapping with appropriate example.

Q.3 Do as directed (Any 2) 14

[A] Discuss the problems that may occur for database operations if database is not in normalized form.

[B] Define and give example for - (1) functional dependency (2) non-transitive dependency (3) full functional dependency.

[C] Explain 2nd Normal Form and 3rd Normal Form giving example.

Q.4 Do as directed. 14

[A] Explain syntax of SQL statement 'Create Table' with all possible clauses. Give example of create table statement for following tables with proper key constraints.

1. Create table Order Master with columns - (Order No, Order Date, Customer Code) having (Order No) as primary key.
2. Create table Order Detail with columns (Order No, Product Id, Quantity) having (Order No, Product ID) as composite primary key and (Order No) is referring to primary key within Order Master.

[B] Explain complete syntax of 'ALTER TABLE' statement with all clauses.

Q.5 Do as directed (Any 2) 14

[A] Discuss the 'Group by' clause with its syntax and usages. Also explain difference between 'Where' and 'Having' clauses of 'SELECT' statement with example.

[B] Write complete syntax of DML statements and explain use of SQL DML statements 'UPDATE' and 'DELETE' with example.

[C] Explain INNER JOIN and OUTER JOIN operation with example. Also write the syntax of join operation in SQL statements.
