



Roll No.

Total No. of Questions : 8] [Total No. of Printed Pages : 3

PGDCA -105

P.G.D.C.A. Examination, 2019

Paper-V

DATABASE MANAGEMENT

Time : 3 Hours]

[Maximum Marks : 100

Note :- Attempt questions from all Sections as directed.

Inst. :- The candidates are required to answer only in serial order. If there are many parts of a question, answer them in continuation.

Section-A

(Short Answer Type Questions)

Note :- All questions are compulsory. Each question carries 4 marks.

1. (i) Write the definition of Database.
- (ii) Write *three* applications of Database.

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Turn Over

- (iii) Write *three* models of Database and also show *three* examples of Database.
- (iv) Illustrate with *one* example of attribute of Data.
- (v) Write the difference between Entities and Table.
- (vi) Write the Schema of Database.
- (vii) Write in brief keys of the Database.
- (viii) Write the physical structure of tree structure.
- (ix) Write the structure of B-tree used in Database.
- (x) Write the relational database model with *two* applications.

Section-B

(Long Answer Type Questions)

Note :- Attempt any *two* questions. Each question carries **15** marks.

2. Explain in detail various characteristics of DBMS.
3. What is an Entity Relationship Model ? Explain each in detail.
4. What are Relational Constraints ? Explain domain constraints with one example.

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Section-C

(Long Answer Type Questions)

Note :- Attempt any *two* questions. Each question carries **15** marks.

5. What is Relational Calculus ? Describe its important characteristics.
6. List the data that are allowed for SQL attributes. Give the complete syntax SQL statements including all clauses.
7. Write short notes on the following with one example :
 - (a) Entity-Relationship diagram
 - (b) Data Model
 - (c) Normalization
8. Write the differences between SQL and PL/SQL.