

Roll No. :

Total No. of Questions : 11]

[Total No. of Printed Pages : 3

DDPG-560

Post-Graduate Diploma in Computer Application Examination, 2023

DATABASE MANAGEMENT SYSTEM

Paper - PGDCA-103

Time : 3 Hours]

[Maximum Marks : 50

Section-A

(Marks : 2 × 10 = 20)

Note :- Answer all *ten* questions (Answer limit **50** words). Each question carries **2** marks.

Section-B

(Marks : 3 × 5 = 15)

Note :- Answer all *five* questions. Each question has internal choice (Answer limit **200** words). Each question carries **3** marks.

Section-C

(Marks : 5 × 3 = 15)

Note :- Answer any *three* questions out of five (Answer limit **500** words). Each question carries **5** marks.

Section-A

1. (i) What is a parametric user interface ?
- (ii) What are Indices ?
- (iii) What is the recursive entity ?
- (iv) Define the difference between left outer join and right outer join.

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- (v) What is SQL variable ?
- (vi) How many data types are there used in SQL ?
- (vii) What is the Augmentation Rule ?
- (viii) What is Trivial Functional Dependency ?
- (ix) What is 2PL ?
- (x) What is Starvation ?

Section-B

2. Define Data Independence.

Or

Define ER diagram.

3. Explain the difference between candidate key and primary key with an example.

Or

Explain the aggregation function.

4. Explain the difference between procedure and function in SQL.

Or

Define nested query with example.

5. Define acid properties of transactions.

Or

Define the difference between serial and non-serial schedules with examples.

6. What is Data Warehousing ?

Or

Define Concurrency problems.

Section-C

7. Define database language and interface in detail.
8. What is Constraint ? Explain in detail.
9. Explain control statements of SQL.
10. Write notes on the following :
 - (a) Inference rule
 - (b) Functional dependencies
11. Explain database recovery techniques.