

Roll No. :

Total No. of Questions : 11]

[Total No. of Printed Pages : 3

DPG-2292

P.G. Diploma in Computer Application Examination, 2022

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

Note :- Answer all questions. Answer should not exceed **50** words in each question.

1. (i) What is the difference between Data and Information ? Explain with example.

BR-452

(1)

DPG-2292 P.T.O.

- (ii) What is data dictionary ?
- (iii) Explain the concept of a table.
- (iv) What operations are performed on the relational model ?
- (v) What is a constraint ? Why we use it ?
- (vi) What is the difference between DELETE and DROP statement ?
- (vii) What is Anomaly ?
- (viii) What do you mean by procedure ?
- (ix) Define Deadlock.
- (x) What is Timestamping ?

Section–B

Note :- Answer all questions. Answer should not exceed **200** words in each question.

Each questions has Internal choice.

2. Who is DBA ? What are its functions ?

Or

Explain the *three* level of architecture of DBMS diagrammatically.

3. Explain the difference between selection and Projection operations with examples.

Or

Describe about Specialization and Generalization.

4. Discuss ACID properties of a transaction.

Or

Explain about Schedule and its types.

5. Discuss in brief the various types of normalization.

Or

Define Serializability.

6. Why is Recovery needed ? Describe different types of failure.

Or

Explain different types of Locking techniques.

Section–C

Note :- Answer any *three* questions out of five.

7. What is Database system ? Define its various components.

8. Explain the following terms :

(i) Different types of attributes

(ii) Strong and Weak Entity set.

9. What do you mean by Key ? Explain different types of keys used in relational database.

10. Describe triggers.

11. Explain different SQL statements with example.

(i) Select

(ii) Insert

(iii) Update

(iv) Alter

(v) Delete