

Roll No.....

Total No. of Printed Pages : 5

Code No. : B02/217

OR

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Second Semester Online Examination, May-June, 2022

PGDCA

Paper II

DATABASE MANAGEMENT SYSTEM

Time : Three Hours]

[Maximum Marks : 100

Note : *Part A and B of each question in each unit consist of 'very short answer type question' which are to be answered in one or two sentences. Part C 'Short answer type' and D 'Long answer type' of each question should be answered within the word limit mentioned.*

UNIT-I

1. (A) Define data model. **2**
(B) What is DBA ? **2**
(C) Explain various purposes of DBMS.
(word limit 200-250) 4

OR

Explain various views of data in DBMS.

- (D) Explain Database System structure with suitable diagrams. *(word limit 400-450) 12*

P.T.O.

Explain the following :

- (i) Transaction management,
(ii) Storage Management.

UNIT-II

2. (A) What is Entity ? **2**
(B) Define relationships of entities. **2**
(C) Explain E-R model as a tool for conceptual design entities. *(word limit 200-250) 4*

OR

Explain generalization in DBMS.

- (D) Draw on ER diagram of library management system and explain.

(word limit 400-450) 12

OR

Explain the following :

- (i) Converting on ER Model into relations scheme.
(ii) Concept of keys.

[2]

UNIT-III

3. (A) Define select operation of relational algebra. 2
(B) What is embeded query language. 2
(C) Explain tuple relational calculus.
(word limit 200-250) 4

OR

Explain functional dependency with example.

- (D) Explain the following with example :
(i) Outer join,
(ii) Inner join,
(iii) Self jon.
(word limit 400-450) 12

OR

Discuss the simple and complex queries using relational algebra in detail.

UNIT-IV

4. (A) What is functional dependency ? 2
[3] P.T.O.

- (B) What do you mean by decomposition ? 2
(C) Explain denormalization with example.
(word limit 200-250) 4

OR

Explain normalization concept in logical model.

- (D) What do you mean by normal forms ?
Explain 1NF, 2NF and 3NF with suitable example. (word limit 400-450) 12

OR

Explain the following with example :

- (i) Multi valued dependencies,
(ii) Boyle codd normal form,
(iii) Join dependencies.

UNIT-V

5. (A) Define DML. 2
(B) Define the use of between clause. 2
(C) Explain the group by and order by clause in SQL queries.
(word limit 200-250) 4

[4]

Code No. : B02/217

OR

Explain Triggers and security in SQL.

(D) Explain the following :

(i) DDL,

(ii) DCL,

(iii) Granting Roles and Privilege.

(word limit 400-450) 12

OR

Give the SQL Query for the following :

(i) Create table college (Cname, city, phone)

(ii) Add a column 'Address' in table college.

(iii) Display details of the college of the city Durg and Raipur.

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