

Code No. : 02/217

Second Semester Examination, May 2019

PGDCA

Paper - II

DATABASE MANAGEMENT SYSTEM

Time : 3 Hrs.

Max. Marks : 100

- Part A and B of each question in each unit consist of very short answer type questions which are to be answered in one or two sentences.
- Part C (Short answer type) of each question will be answered in 200-250 words.
- Part D (Long answer type) of each question should be answered within the word limit 400-450.

Unit - I

Q.1 A. Define Database. (2)

Q.1 B. Specify types of interactions catered by DBMS. (2)

Q.1 C. Discuss Data Independence with proper example?. (4)

OR

Classify types of database user in DBMS?

Q.1 D. What do you understand by data model? Specify data model types with suitable diagram. (12)

OR

Explain the different types of database languages with example.

(2)

Unit - II

- Q.2 A. What is weak relationship in DBMS. (2)
Q.2 B. What is an tuple? (2)
Q.2 C. Describe the concept of ACID properties in DBMS. (4)

OR

What are the main differences between Primary key and Foreign Key? Explain.

- Q.2 D. What do you mean by DFD? Describe its notation. (12)

OR

Discuss features of E-R diagram. Differentiate between Specialization, Generalization and Aggregation.

Unit - III

- Q.3 A. List some of the properties of a relation. (2)
Q.3 B. Specify Relational calculus. (2)
Q.3 C. Specify use of additional operators in relational algebra. (4)

OR

Draw a Relational model of School management system.

- Q.3 D. What do you mean by relational algebra? Explain the different operations of it. (12)

OR

Discuss the need of Domain Relational calculus with example.

(3)

Unit - IV

- Q.4 A. What is subquery? (2)
Q.4 B. Specify Project operation in DBMS. (2)
Q.4 C. Discuss non-loss decomposition with example. (4)

OR

Explain Multi valued functional dependency with example.

- Q.4 D. Differentiate between DBMS and RDBMS with necessary details. (12)

OR

Discuss the use of join dependency in 5th normal form.

Unit - V

- Q.5 A. What is date type in oracle? (2)
Q.5 B. Write short notes on group by command. (2)
Q.5 C. What do you understand by view? Give syntax of view. (4)

OR

Differentiate between Char and Varchar with example.

- Q.5 D. What do you understand by Join? Elaborate different techniques of joins in DBMS. (12)

OR

Discuss rules to create integrity constraint. Specify different Integrity Constraints used in DBMS.