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UNIT -III

- Q3. (a) Explain structure of relational database model with example.
(b) Explain tuple relational calculus and domain relational calculus with example.
(c) Discuss different types of joins with example.

UNIT -IV

- Q4. (a) What is Normalisation? Explain 4NF with example.
(b) Explain the concept of update anomalies and join dependencies.
(c) Short notes on –
(i) Multi-valued dependencies
(ii) De-Normalisation

UNIT – V

- Q5. (a) What are various data types of SQL explain in detail.
(b) What do you mean by integrity constraints? Describe various integrity constraints used in SQL.
(c) Explain following SQL functions clause with example –
(i) Order by (ii) Group by
(iii) Count () (iv) Max ()
(v) min ()

[1]

ROLL NO.....

PGDCA. 202/22

II SEMESTER EXAMINATION 2022

PGDCA

PAPER-II

DATABASE MANAGEMENT SYSTEM

TIME: 3 HOURS

MAX. -80

MIN.- 16

Note:- Attempt any two questions from each unit. All questions carry equal marks.

UNIT – I

- Q1. (a) Write down advantages and disadvantages of DBMS.
(b) What is database abstraction or database view? Explain types of view of database.
(c) Explain database system structure.

UNIT -II

- Q2. (a) Explain generalisation and specialisation with example.
(b) Draw an E-R diagram for college management system with proper explanation.
(c) What is E-R model? Describe various notations used in E-R model (diagram) with example.