

22P336

(Pages: 2)

Name:

Reg.No:

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2023

(CBCSS - PG)

(Regular/Supplementary/Improvement)

CC19P CSS3 C11 - ADVANCED DATABASE MANAGEMENT SYSTEM

(Computer Science)

(2019 Admission onwards)

Time : 3 Hours

Maximum : 30 Weightage

Part-A

Answer any *four* questions. Each question carries 2 weightage.

1. Discuss about domain constraints.
2. Explain about tuple relational calculus.
3. Explain about 4NF with suitable example.
4. How to join a table to itself?
5. What is locks?
6. What is a cursor?
7. What is View Serializability?

(4 × 2 = 8 Weightage)

Part-B

Answer any *four* questions. Each question carries 3 weightage.

8. Explain data independence in detail.
9. What is the need for decomposition of a table in DBMS? Explain.
10. Explain Boyce-Codd Normal form. How it is different from third normal form?
11. How to modify the structure of the tables?
12. Explain about I/O constraints and unique key constraint.
13. Write queries for the following:
 - a) List the students with names starting with A D and K in the student table.
 - b) List the female students with student numbers between 30 and 50.
14. Describe the time stamp ordering Protocol.

(4 × 3 = 12 Weightage)

Part-C

Answer any *two* questions. Each question carries 5 weightage.

15. Construct and explain an E-R Diagram for the Company database with proper Entities and Attributes.
16. Define transaction. Explain the states of transaction and ACID properties.
17. Discuss the features, advantages and disadvantages of OODBMS.
18. Discuss commit protocols for distributed databases.

(2 × 5 = 10 Weightage)
