20P336 (Pages: 1) Name…….…………...

Reg. No…………………

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2021

(CBCSS-PG)

(Regular/Supplementary/Improvement)

CC19P CSS3 C11 - ADVANCED DATABASE MANAGEMENT SYSTEM

(Computer Science)

(2019 Admission onwards)

Time: Three Hours   Maximum: 30 Weightage

PART A

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

1. Describe Selection and projection operation in Relational algebra?

2. Explain different database users?

3. What is BCNF? How to make a table into BCNF?

4. How to create and destroy a view in the database?

5. What is View Serializability?

6. How to create a Trigger?

7. Discuss the Drawbacks of OODBMS?

(4 × 2 = 8 Weightage)

PART B

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

8. Explain different data models used in DBMS.

9. With the help of an example how we can eliminate anomalies in the database.

10. Explain the ACID properties of transactions.

11. What are Locks? Explain different types and levels of Locks?

12. Explain the time stamp ordering Protocol.

13. With proper examples discuss the use of Cursor in SQL.

14. Explain Commit protocols for distributed Databases.

(4 × 3 = 12 Weightage)

PART C

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

15. Draw and explain an E-R Diagram for the Company database with proper Entities and Attributes.

16. Explain DML and DDL commands used in SQL (use HAVING and GROUP BY)

17. Discuss in detail the Two-phase locking protocol.

18. Explain Normalization in detail.

(2 × 5 = 10 Weightage)

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