17P344 (Pages: 2) Name: ………..…………..

Reg. No…………….………

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2018
(CUCSS-PG)

(Computer Science)

CC17P CSS3 C01 - ADVANCED DATABASE MANAGEMENT SYSTEM

(2017 – Admission)

Time: Three Hours   Maximum: 36 Weightage

PART A

Answer *all* questions. Each question carries 1 weightage.

1. Describe the levels of abstraction.

2. Define weak entity set.

3. Describe the objectives of normalization.

4. Write an example for GROUP BY statement.

5. Define Join.

6. Explain the aggregate functions in SQL

7. Define scalar function.

8. Define granularity in DBMS

9. Differentiate database schema and state.

10. What is meant by timestamp.

11. List the DDL commands in SQL

12. Define deadlock.

(12 × 1 = 12 Weightage)

PART B

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

13. Define data model, Explain different data models.

14. Explain with example why concurrency control is needed in database transaction.

15. Explain with an example 'when a schedule is said to be serializable'

16. Write note on transparency in distributed database.

17. Explain recoverability in transaction management.

18. Explain the approaches to storing relation in distributed database.

19. Discuss transaction states with a neat diagram.

20. Explain recursive relation with suitable example.

21. Explain the three tier architecture in DBMS

(6 × 2 = 12 Weightage)

PART C

Answer any *three* questions. Each question carries 4 weightage.

22. Explain in detail query processing in distributed database.

23. Write note on applications of database management system.

24. Explain two phase locking protocol.

25. Discuss the various types of join operators in relational algebra.

26. Explain Boyce-Codd Normal form. How it is different from third normal form?

27. Explain Cursors with suitable example.

(3 × 4 = 12 Weightage)

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