

D 6774

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Name.....

Reg. No......

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2016

(CUCSS)

Computer Science

CSS 3C 01—ADVANCED DATABASE MANAGEMENT SYSTEMS

(2014 Admissions)

Time : Three Hours

Maximum : 36 Weightage

Part A

Answer all questions.

Each question carries 1 weightage.

1. What is Database Management System ?
2. What are the constraints on relation ?
3. Define instance of a database ?
4. What is a weak entity ?
5. What is referential integrity constraints ?
6. Write any *two* **DML** commands of SQL ?
7. State ACID properties ?
8. What do you mean by strict schedule ?
9. Define Granularity ?
10. What are the advantages of distributed database ?
11. What is **serializability** ?
12. What is partial dependency ?

(12 x 1 = 12 weightage)

Part B

*Answer any **six** questions.*

Each question carries 2 weightage.

13. Explain time stamp ordering protocol ?
14. Explain the three schema architecture ?
15. Explain the different types of attributes ?
16. Give the different database languages ?

Turn over

17. What is dependency preserving decomposition ? Give an example ?
18. Explain the anomalies in a database system ?
19. Explain data Independence ?
20. Explain two phase locking mechanism ?
21. State the different object oriented database system concepts ?

(6 x 2 =12 weightage)

Part C

*Answer any **three** questions.*

*Each question carries 4 **weightage**.*

22. Explain the relational algebra operations ?
23. With the help of a neat diagram explain the DBMS components and its interactions ?
24. Explain the various **concurrency** control techniques ?
25. Write an SQL statement to show a nested query ?
26. Give an overview of **ODMG** data model ?
27. What is 5 NF ? Explain how such form is achieved.

(3 x 4 = 12 weightage)