D 90988 (Pages : 2) Name.....

Reg. No.....

THIRD SEMESTER M.A./M.Sc./M.Com. DEGREE (REGULAR) EXAMINATION, NOVEMBER 2020

(CBCSS)

Computer Science

CSS 3C 11—ADVANCED DATABASE MANAGEMENT SYSTEMS

(2019 Admissions)

Time : Three Hours Maximum : 30 Weightage

General Instructions

1. *In cases where choices are provided, students can attend* **all** *questions in each Section / Part.*
2. *The minimum number of questions to be attended from the Section / Part shall remain same.*
3. *There will be an overall ceiling for each Section / Part that is equivalent to maximum weightage of the Section / Part.*

Section A

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

1. Differentiate DDL and DML.
2. What is a weak entity set ?
3. What do you mean by locks in DBMS ?
4. Define a transaction in DBMS.
5. What is the importance of timestamp ordering protocol ?
6. Identify the use of drop statement in table ?
7. Write the syntax SQL command for editing the field 'name' in the table 'student' ?

(4 × 2 = 8 weightage)

Section B

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

8. Write the significance of primary key, candidate key and foreign key with example.
9. Give an example for Functional dependency.

Turn over

10. What is the use of 'having' clause in SQL ? Mention a proper example.

11. Write a short note on recovery management in DBMS.

12. List the advantages of Object Oriented Database Management Systems.

13. What is commit Protocol in distributed database ?

14. What is the difference between relational algebra and calculus ?

(4 × 3 = 12 weightage)

Section C

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

15. Consider the tables Employee, salary and personal. Draw the ER diagram for these tables with proper relationships.

16. What do you mean by stored procedures ? Write the significance of stored procedure with an example.

17. Consider two tables student and marks for storing the personal details and mark details of a student. Create these two tables by identifying the necessary fields. Write the SQL for displaying the name and address of the students those who have secured highest marks in every subjects.

18. What is the importance of distributed database in modern computing paradigm ? Compare the working of distributed database with DBMS and OODBMS.

(2 × 5 = 10 weightage)