FIRST SEMESTER MSc. Computer Science DEGREE CCSS-REGULAR EXAMINATION NOVEMBER 2020

(2020 Admission onwards)

MSCCS01C04:ADVANCED DATABASE MANAGEMENT SYSTEM

Time: 3Hours Maximum Marks: 60

PART A (Answer any **five** questions. Each question carries **3** marks)

- 1. Define sub-queries
- 2. Write a note on Graph Database.
- 3. Write the syntax of the DELETE command in SOL
- 4. Define Data Integration
- 5. Write a note on Mobile databases.
- 6. Write a note on Relational model.

PART B (Answer any three questions. Each question carries 5 marks)

- 7. Discuss Assertions and Triggers in DBMS.
- 8. Test the output of comparison between tables and views
- 9. Define an integrity constrain. What is the role of a foreign key in maintaining integrity?
- 10. Explain the importance of NOT NULL Constraint in SQL with example
- 11. Consider the following relational database; employee (employee_name, street, city)
 works(employee_name, company_name, salary) conpany(company_name, city) manager
 (employee_name,manager_name) Give an SQL DDL definition of this database. Identify the
 suitable referential integrity constraints that should hold and include them in the DDL
 definition

PART C (Answer any three questions. Each question carries 10 marks)

12. a. Explain Date Built-in functions with example

4-marks

b. Explain different joined relations in SQL with examples.

6-marks

13.	a. Analyse the working of key-value store databases.	6-marks
	b. Explain the benefits of Column Databases	4-marks
14.	a. State about SELECT operation and its clauses in Relational Algebra.	6-marks
	b. List the basic steps in query processing.	4-marks
15.	a. Explain about various data models used to describe the design of a database.	5-marks
	b. Distinguish between Instances and Schemas.	5-marks
16.	a. Explain the different Multimedia Data Formats	4-marks
	b. Analyse the intrinsic imperfections of the data in Geographic Information Systems	
		6-marks