D3ACS2001	(1 Page)	Name
		Reg.No

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2021

COMPUTER SCIENCE FCSS3C11-ADVANCED DATABASE MANAGEMENT SYSTEM

Time: 3 Hours Maximum Weightage: 30

Section A: Short answer questions. *All* questions can be answered. Each carries *two* weightage (Ceiling 6 weightage).

- 1. How is an entity relationship diagram drawn?
- 2. Write the methods to identify functional dependency.
- 3. Define cursor in DBMS with example.
- 4. Brief the transaction managements in SQL.
- 5. What is commit protocol in DBMS?
- 6. Write notes on lossless join with example.
- 7. List the various ACID properties of database transaction.

Section B: Short essay questions. *All* questions can be answered. Each carries *four* weightage (Ceiling 12 weightage).

- 8. With a neat diagram, explain the structure of a DBMS.
- 9. Describe normal forms and its type.
- 10. What is ORDER BY clause and GROUP BY clause in SQL?
- 11. Explain Serializability in DBMS and its testing.
- 12. List the three types of DBMS architecture.
- 13. Write the differences between selection and projection in relational algebra.
- 14. Explain unique key and foreign key constraints.

Section C: Essay questions. *All* questions can be answered. Each carries *six* weightage (Ceiling 12 weightage).

- 15. Enumerate and explain the different types of data models.
- 16. Explain the various anomalies in DBMS with example. How are database anomalies removed?
- 17. Write an essay on locks in DBMS.
- 18. What are the advantages and disadvantages of OODBMS?