



K21U 1816

Reg. No. :

Name :

**III Semester B.Sc. Degree CBCSS (OBE) Reg./Sup./Imp.
Examination, November 2021
(2019 – 2020 Admission)
GENERAL AWARENESS COURSE IN COMPUTER SCIENCE
3A12CSC : Database Management Systems**

Time : 3 Hours

Max. Marks : 40

**PART – A
(Short Answer)**

Answer **all** questions

(6×1=6)

1. What is Domain ?
2. Define Entity.
3. Which command is used to delete the record but retain the structure ?
4. Mention any one relational algebra basic operation.
5. Which symbol represents weak entity set ?
6. List out mapping cardinalities.

**PART – B
(Short Essay)**

Answer **any six** questions.

(6×2=12)

7. Write notes on update query with example.
8. Describe database schema.
9. List out set operations.
10. What is functional dependency ?
11. What is referential integrity ?

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12. Explain inference axioms.
13. What are tuples and attributes ?
14. Give any two join operations in SQL.

PART – C
(Essay)

Answer **any four** questions :

(4×3=12)

15. Write notes on ER diagram.
16. Explain database structure.
17. Discuss network data model.
18. Discuss triggers.
19. Explain projection operation in relational algebra. Give an example.
20. Explain any three roles of DBA.

PART – D
(Long Essay)

Answer **any 2** questions :

(2×5=10)

21. Explain Normal Form and BCNF in detail.
 22. Briefly explain the different types of keys with examples.
 23. Explain integrity constraints.
 24. Create a table student with rollno, name, sex and marks as attributes. (Rollno is the primary key). Write queries for
 - 1) Insert records
 - 2) Display the rollno and marks of all students.
 - 3) Display the details of the student with highest mark.
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