



K22U 1329

Reg. No. :

Name :

**II Semester B.Sc. Degree (C.B.C.S.S. – O.B.E. – Regular/Supplementary/
Improvement) Examination, April 2022
(2020 Admission Onwards)**

**COMPLEMENTARY ELECTIVE COURSE IN LIFE SCIENCES (ZOOLOGY)
AND COMPUTATIONAL BIOLOGY
2C02CSC-ZCB : Database Management Systems**

Time : 3 Hours

Max. Marks : 32

**PART – A
(Short Answer)**

Answer **all** questions. **Each** question carries **1** mark.

1. Define Entity.
2. Define primary key.
3. Write the SQL statement to delete a table named as person.
4. What is the purpose of ORDER BY clause ?
5. Define Domain in Relational Algebra.

(5×1=5)

**PART – B
(Short Essay)**

Answer **any four**, **not** exceeding **75** words. **Each** question carries **2** marks.

6. Explain any two purpose of database system.
7. Explain any two database users.
8. Explain 2NF.
9. What is the purpose of an E-R Diagram ?
10. Explain any two data types in SQL.
11. Write the use of select statement in Relational Algebra.

(4×2=8)

P.T.O.



PART – C
(Essay Questions)

Answer **any three, not** exceeding **150** words. **Each** question carries **3** marks.

- 12. Explain entity, strong entity and weak entity.
- 13. Explain create and insert DML statements in SQL.
- 14. How to delete a record and delete a table ?
- 15. Explain joins in SQL and its different types.
- 16. Define Tuple Relational Calculus. **(3×3=9)**

PART – D
(Long Essay)

Answer **any two, not** exceeding **300** words. **Each** question carries **5** marks.

- 17. Explain the database structure.
 - 18. Draw an entity relationship diagram for a Banking Database Transaction.
 - 19. Explain the purpose of normalization and explain 3NF and BCNF.
 - 20. Explain the following :
 - a) Domain relational calculus
 - b) Attributes and domains
 - c) Relation. **(2×5=10)**
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