



K24U 1704

Reg. No. : .....

Name : .....

**Second Semester B.Sc. Degree (CBCSS – OBE – Regular/  
Supplementary/Improvement) Examination, April 2024  
(2020 Admission Onwards)  
COMPLEMENTARY ELECTIVE COURSE IN LIFE SCIENCE  
(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.

**(5×1=5)**

1. What do you mean by database management system ?
2. Write features of a candidate key.
3. What do you mean by redundancy in database ?
4. Write syntax of update query.
5. What do you mean by tuples in relational database model ?

**PART – B  
(Short Essay)**

Answer **any 4** questions, not exceeding **75** words. **Each** question carries **2** marks.

**(4×2=8)**

6. What do you mean by attribute ?
7. Who is a database administrator ?
8. Define 2NF.
9. Write about select query.
10. Discuss the various data types in SQL.

P.T.O.



**PART – C**  
**(Essay)**

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

**(3×3=9)**

11. Draw block diagram of a database structure.
12. Write an example to create a employee table with fields emp id (Primary Key), name, date of birth, department, designation. Write query to sort table in ascending order. Retrieve name of employees working in IT department.
13. Compare various constraints that can be applied on a database.
14. Short note on DML statements in SQL.
15. Explain concept of record, domain and relations.

**PART – D**  
**(Long Essay)**

Answer **any 2** questions, **not** exceeding **300** words. **Each** question carries **5** marks.

**(2×5=10)**

16. Explain ER model in detail.
  17. Explain various database users.
  18. Explain aggregate functions and joins in DBMS.
  19. Explain various relational algebra operations.
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