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(Pages : 2)

Name.....

Reg. No.....

**FOURTH SEMESTER (CBCSS-UG) DEGREE EXAMINATION
APRIL 2024**

B.C.A./B.Sc. Computer Science

BCA4B05/BCS4B05—DATABASE MANAGEMENT SYSTEM AND RDBMS

(2019 Admission onwards)

Time : Two Hours

Maximum : 60 Marks

Section A – Short Answer Type Questions*Answer all the questions.**Each question carries maximum of 2 marks.**Ceiling 20 marks.*

1. List the advantages and applications of DBMS.
2. Define instances and schemas of database.
3. What are the different Relationship Sets ? Explain.
4. Define i) super key ; ii) candidate key.
5. What are domain constraints ?
6. Explain about multi-valued dependencies.
7. Define views.
8. Explain deadlock and advisory lock.
9. What is mean by revoke ? How it is applied ?
10. What is the need for triggers ?
11. How to lock Table-level ?
12. How to use IN operator in SQL ? Explain.

(Ceiling 20 marks)

Section B Short Essay Type Questions*Answer all the questions.**Each question carries 5 marks.**Ceiling 30 marks.*

13. What do you mean by Database Independence ? Explain Three Schema Architecture.
14. List the different set operations ? Explain each with examples.

Turn over

15. Explain about different types of integrity constraints.
16. Define second and fifth normal Form.
17. What is Decomposition ? What is the purpose of Decomposition in database ?
18. Which are the modes of lock ? Explain. Explain two phase locking.
19. Write about triggers and its operations in detail.

(30 marks)

Section C Essay Type Questions

*Answer any **one** question.*

The question carries 10 marks.

20. a. Explain different relational database anomalies in a database. (5 marks)
- b. List different data models and explain each. (5 marks)
21. a. What Does Database Concurrency Mean ? When a lost update problem occurs how the problems can be avoided, explain ? (6 marks)
- b. What are the disadvantages of file-processing system ? (4 marks)

(1 × 10 = 10 marks)