

C 41184

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Name.....

Reg. No.....

**FOURTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION
APRIL 2023**

B.C.A./B.C.S.

BCA 4B 05/BCS 4B 05—DATABASE MANAGEMENT SYSTEM AND RDBMS
(2019 Admission onwards)

Time : Two Hours

Maximum : 60 Marks

Section A (Short Answer Type Questions)*Answer all questions, each correct answer carries a maximum of 2 marks.**Ceiling 20 marks.*

1. Write the duties of a database administrator.
2. What is relational model ? Explain.
3. Define data independence.
4. Differentiate primary key and foreign key with a suitable example.
5. Discuss the concept of Entity.
6. Write the need of normalization.
7. What are good and bad decompositions ?
8. What are aggregate functions ?
9. Write the use of group by clause.
10. What is a view ? Explain with an example.
11. What is deadlock ? Explain.
12. What is the use of cursors ?

Section B (Short Essay Type Questions)*Answer all questions, each correct answer carries a maximum of 5 marks.**Ceiling 30 marks.*

13. Discuss different extended E-R features.
14. Write the advantages and disadvantages of using DBMS approach.

Turn over

15. Discuss different join operations and its types.
16. Write a note on join dependencies and fifth normal form.
17. What are locks ? Discuss different locks in detail.
18. How will you create a user-defined function ? Explain with an example.
19. What is relational calculus ? Explain with example queries.

Section C (Essay Type Questions)

*Answer any **one** question, correct answer carries 10 marks.*

20. Explain different data models in detail.
21. What is a Trigger ? Write its relevance. How will you create a trigger ?