C 41184   (Pages : 2)   Name......................................

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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

2

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 ?

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