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Reg. No :

Name :

BACHELOR'S DEGREE (C.B.C.S) EXAMINATION, NOVEMBER 2024
2018, 2019, 2020, 2021, 2022 ADMISSIONS SUPPLEMENTARY
B.C.A SEMESTER III - CORE COURSE (COMPUTER APPLICATIONS)
BCA3B10B18 - RDBMS

Time : 3 Hours

Maximum Marks : 80

Part A

I. Answer any Ten questions. Each question carries 2 marks

(10x2=20)

1. Describe the network data model.
2. Define entity. Give an example.
3. Explain the selection operation in relational algebra with notation.
4. Describe NOT NULL constraint.
5. Explain range searching in SQL.
6. Define triggers.
7. Write the syntax for setting primary key.
8. Write a note on loss-less decomposition.
9. Explain spurious tuple generation in join.
10. Enumerate the conditions for deadlock.
11. Explain the use of rollback command in transaction processing.
12. List the errors that causes transaction failure.



Part B

II. Answer any Six questions. Each question carries 5 marks

(6x5=30)

13. Distinguish among the various data base users.
14. Define data independence. Explain its types.
15. Differentiate between the types of keys.
16. Explain the DCL commands.
17. Explain pattern matching in SQL.
18. Define normalisation. Enumerate the benefits of normalisation.
19. Demonstrate the various anomalies caused by functional dependency.
20. Define deadlock. Explain the strategies for deadlock prevention.
21. Write note on data base backup and recovery.

Part C

III. Answer any Two questions. Each question carries 15 marks

(2x15=30)

22. Describe the different views of data in a data base system.
23. Explain the advanced SQL features.
24. Define what is a normal form. Explain how the various normal forms are achieved.
25. Discuss on the concurrency control mechanisms. Also mention the need for concurrency control.