21102045

QP CODE: 21102045

Reg No : .....

Name : .....

B.Sc DEGREE (CBCS)EXAMINATION, AUGUST 2021

Third Semester

B.Sc Mathematics Model II Computer Science

VOCATIONAL COURSE - CA3VOT03 - COMPUTER SCIENCE - DATABASE MANAGEMENT SYSTEMS

2017 Admission Onwards

B254AEC2

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. What is a native user?
2. What is physical data independence?
3. What is aggregation?
4. What is total partial constraint?
5. Define super key.
6. List out any two importance of relational algebra.
7. Explain the term recursion in SQL.
8. What is the purpose of 'WHERE' clause in SQL?
9. What is buffer replacement strategy?
10. Differentiate B Tree and B+ Tree.
11. What is the importance of sorting in DBMS?
12. Explain Parallel systems.

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. What are the different types of database users?
14. Explain 3-tier architecture in DBMS.
15. Explain SELECT operation in relational algebra operation.
16. Explain outer join operation.
17. Explain any four DML languages.
18. Explain BETWEEN and LIKE operator in SQL.
19. Explain different possible ways of organizing records in files.
20. Explain Data Dictionary and Buffer Manager.
21. What are the threats to databases?

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Explain integrity constraints in details.
23. Explain integrity constraints in details.
24. Explain File Organization and different types of records.
25. Explain Query Processing.

(2×15=30)