24027348

B.Sc DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE EXAMINATIONS, OCTOBER 2024

Third Semester

B.Sc Mathematics Model II Computer Science

VOCATIONAL COURSE - CA3VOT03 - COMPUTER SCIENCE - DATABASE MANAGEMENT SYSTEMS

2017 Admission Onwards

A4281AB2

Time: 3 Hours   Max. Marks : 80

Part A

*Answer any **ten** questions.*

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

1. Define Application Programmer.

2. Define an attribute with example.

3. Define entity and attribute with example.

4. What is foreign key?

5. What is GRANT REVOKE command?

6. Briefly explain SELECT operation in relational algebra.

7. Explain the term recursion in SQL.

8. What is the use of DROP command in SQL?

9. What is a hash function?

10. What is the importance of sorting in DBMS?

11. Define query optimization.

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 cardinalility constraints.

16. Explain the set difference operation.

17. Explain DDL and DML commands with example.

18. Explain GROUP BY and ORDER BY commands in SQL with syntax.

19. Explain DROP command and TRUNCATE command in SQL with example.

20. Explain Variable Length Records.

21. Define storage area network.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Explain any five keys in detail.

23. Explain Relational Algebra operations in SQL.

24. Explain data dictionary and its relational schema representing system metedata.

25. Explain Query Processing.

(2×15=30)