Register No.: ....   Name: ....

SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

FIFTH SEMESTER INTEGRATED M.C.A DEGREE EXAMINATION (R), DECEMBER 2022
(2020 SCHEME)

Course Code: 20IMCAT305

Course Name: Introduction to RDBMS and SQL

Max. Marks: 60   **Duration: 3 Hours**

PART A
(Answer all questions. Each question carries 3 marks)

1. Which are the different types of database users?
2. Explain Crow Foot notation with example.
3. Explain primary key with an example.
4. Differentiate DBMS and RDBMS.
5. Distinguish between HAVING and WHERE clause in SQL with example.
6. Write short note on GRANT and REVOKE commands with example.
7. Explain partial dependency with an example.
8. What is BCNF?
9. Explain OUTER JOIN with an example.
10. Write short notes on functions in SQL with example.

PART B
(Answer one full question from each module, each question carries 6 marks)

MODULE I

11. What are the problems with file system data processing? Explain.   (6)

OR

12. Write short notes on extended E-R features.   (6)

MODULE II

13. Explain the different types of integrity constraints.   (6)

OR

14. Elucidate Codd's relational database rules.   (6)

MODULE III

15. Write short note on DCL and TCL commands with example.   (6)

OR

16. Explain the string and numeric functions with example. (6)

MODULE IV

17. Explain Armstrong's axioms of functional dependency. (6)

OR

18. What is Normalization? Explain 1NF, 2NF and 3NF with suitable example. (6)

MODULE V

19. Write short notes on procedures with example. (6)

OR

20. Explain triggers with example. (6)

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