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GIET UNIVERSITY, GUNUPUR – 765022
M. C. A (Third Semester) Examinations, December' 2020
MCA303 - DATABASE MANAGEMENT SYSTEM

Time: 2 hrs

Maximum: 50 Marks

The figures in the right hand margin indicate marks.

PART – A (10 x 2 = 20 Marks)

Q.1. Answer **ALL** questions

- a. Expand and give a note on: DBMS.
- b. What is the use of RAD tool?
- c. Differentiate Database Schema and Database Instance.
- d. Define the terms Relationship and Relationship set in E-R data model.
- e. What do you mean by Primary key in Entity Sets?
- f. What is the use of functional dependencies?
- g. What is Query Processing?
- h. What will Cost-based optimizer generate?
- i. Write any two String library function in SQL.
- j. What is the roll of Savepoint in Structured Query Language?

PART – B (6 x 5=30 Marks)

Answer **ANY FIVE** questions

Marks

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| 2. What is the roll of Database Users and Administrators in DBMS? Explain. | (6) |
| 3. With neat diagram explain Database system architecture. | (6) |
| 4. What is E-R diagram? Explain its components with example. | (6) |
| 5. Write short note on Fourth Normal Form. | (6) |
| 6. How do you estimate the Statistics of expression results? | (6) |
| 7. What is Two-Phase commit protocol? Explain. | (6) |
| 8. Define the term Cursor. How do you create stored procedure? Give an example. | (6) |
| 9. List out and usage of aggregate functions in SQL. | (6) |

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