Code: A24AM

R15

B V RAJU INSTITUTE OF TECHNOLOGY
(UGC AUTONOMUOUS)
B.Tech 2 Year 2 Semester Regular/Supplementary Examinations, Feb 2021
DATABASE MANAGEMENT SYSTEMS
ACADEMIC

Time: 3 Hours   **Max Marks: 70**

Note: This Question Papers Contains Two Parts A and B
Part A: is compulsory Which Carries 20marks. Answer all Questions in Part A at one place only.
Part B consists of 10 Questions. Answer any five (one full question from each unit). Each question carries 10 marks and may have a, b, c as sub questions.

Part - A   (2 x 10 = 20)

1. a) Mention the different languages present in DBMS

   b) Do we consider NULL values the same as that of blank space or zero?

   c) Explain Database partitioning and its importance.

   d) What is normalization and what are the different types of normalization?

   e) What do you understand by Data Independence?

   f) What is a checkpoint in DBMS and when does it occur?

   g) What is Index hunting and how does it help in improving query performance?

   h) What do you understand by sub-queries in SQL?

   i) Mention the differences between HAVING and WHERE clause?

   j) Write a query to create a duplicate table with and without data present?

Part - B   (5 x 10 = 50)

2 What are the unary operations in Relational Algebra?
OR

3 What do you mean by transparent DBMS?

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4 What is the Relationship?

OR

5 What do you understand by Data Model?

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6 a) What is the difference between TRUNCATE, DELETE, and DROP statement?

   b) What is the difference between SQL and SQL Server?

OR

7 a) What are the different types of SQL commands?
   b) What is a Query and Subquery in DBMS?

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8 What is an Entity set?

OR

9 What is an Extension of entity type?

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10 a) What is concurrency control in DBMS?
   b) What is a Phantom deadlock?

OR

11 a) What is a transaction? What are ACID properties?
   b) What is a Stored Procedure in DBMS?

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