24162

B. Tech. (CSE) 4th Semester (Re-appear)

Examination – October, 2020

DATABASE MANAGEMENT SYSTEMS

Paper : CSE-202-F

Time : 1.45 Hours]   *[Maximum Marks : 100*

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt any *three* questions. All questions carry equal marks.

1. Write the short note on the following :

    (i) Metadata and Data Dictionary

    (ii) Direct files.

    (iii) Types of database users

    (iv) Entity integrity constraint

(v) Data warehousing

(vi) Data independency

(vii) Referential integrity constraints

(viii) BCNF

2. Differentiate between Data, Database, DBMS, Database System and File System with examples. Also explain three level architecture of database.

3. Explain the Client/ Server architecture in detail with their applications.

4. Explain RDBMS. Explain various operations on Relational Algebra.

5. Compare the Sequential and Indexed sequential files. Also explain Hashing.

6. What are various DCL and DML commands in SQL ? Give brief description of their purposes.

7. (a) What are various DDL commands in SQL ? Give brief description of their purposes.

   (b) Can we work with un-normalized database ? Explain the normalization in detail.

8. (a) Differentiate between Distributed and Parallel data processing.

   (b) Differentiate between Data Mining and Data Warehousing.

9. Write the short notes on the following :

   (a) Need of concurrency control

   (b) Network Model

   (c) Properties of Transaction

   (d) Hierarchical Model

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