B.Tech. (CSE) 4th Semester F-Scheme

Examination, May-2019

DATABASE MANAGEMENT SYSTEMS

Paper-CSE-202-F

Time allowed: 3 hours]

[Maximum marks: 100

Note: Attempt five questions in total, selecting one question from each unit. Question No. 1 is compulsory. All questions carry equal marks

- 1. (i) Meta data and data dictionary
 - (ii) Sequential files
 - (iii) Types of database users
 - (iv) Entity integrity constraint
 - (v) Data mining
 - (vi) Hashing
 - (vii) Lile cycle of transaction
 - (viii) Recovery techniques

Unit-I

Differentiate between data, database, DBMS and database system with examples. Also explain three level architecture of database.

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- Explain the E-R diagram of online counseling. Also discuss the following:
 - (a) Reduction of ER diagram into tables
 - (b) Mapping

Unit-II

- Discuss the following:
 - (a) B-tree index files
 - (b) Direct file
- What is RDBMS? Is there any order of tuples. Explain various operation of relational algebra.

Unit-III

- (a) What are various DDL commands in SQL? Give brief description of their purposes.
 - (b) Can we work with unnormalized database? Explain the normalization in detail.
- Discuss Boyce-Codd Normal form in detail with merits and demerits.

Unit-IV

- 8. (a) What do you mean by functional dependency? Also explain referential integrity constraint.
 - (b) Explain two phase locking and binary locking.

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- 9. Write the short notes on the following:
 - (a) Need of concurrency control
 - (b) Network model
 - (c) Properties of transaction
 - (d) Hierarchical model