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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) Life cycle of transaction
- (viii) Recovery techniques

Unit-I

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

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

Unit-II

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

Unit-III

6. (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.
7. Discuss Boyce-Codd Normal form in detail with merits and demerits. https://www.haryanapapers.com

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