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B.Tech. 4th Semester (CSE) Examination, May–2016

DATABASE MANAGEMENT SYSTEM

Paper–CSE-202-F

Time allowed : 3 hours]   *[Maximum marks : 100*

*Note : The students have to attempt **first compulsory** question and **one** question from each of the **four** sections.*

1. Explain the following :

   (a) Database Languages.

   (b) Sequential files

   (c) QLB

   (d) Data Mining and Data Warehousing.   20

Section–A

2. (i) Describe DBMS. Explain the advantages of DBMS over file processing system.   10

   (ii) Explain the responsibilities of Database Administrator.   10

3. (i) Explain the three level architecture of Database Systems.   10

   (ii) What do you understand by Entity Relationship diagram ?   10

Section–B

4. Define file. Give a complete description about file organisation.   20

5. Explain the following :
    (i)   Relational Model
    (ii) Relational Algebra.   20

Section–C

6. (i)   Explain in detail about functional dependencies.
                                                        10
    (ii) Describe the 4th normal form with a suitable
          example.   10

7. Describe the following :
    (i)   SQL
    (ii) Integrity Constraints.   20

Section–D

8. Describe transaction. Explain the properties and life
    cycle of transaction.   20

9. Give a complete description about concurrency control
    and recovery systems.   20