

24162

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

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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