

Roll No. ....

**2113**

**B. E. 4th Semester (IT)**  
**Examination – May, 2011**

**DATABASE MANAGEMENT SYSTEMS**

**Paper : CSE-202-E**

***Time : Three 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 *five* questions. All questions carry equal marks.

1. (a) Discuss various views of data. 5  
(b) What do you mean by data model ? Explain different types of data models. 15
2. (a) What is entity & attributes ? How these can be represented ? What is their significance. 10  
(b) What E-R diagram ? Show the process of reduction of E-R diagram to table. 10
3. What do you mean by hashing ? Discuss various type of hashing with their features, merits and demerits. 20

4. (a) Explain about various operator in relational algebra with the help of examples. 10  
(b) What do you mean by schema ? Discuss various type of schemas. 10
5. (a) What do you mean by constraints ? Explain various constraints and dependencies. 10  
(b) What is normalization ? Discuss 4th Normal form using some example. 10
6. (a) What is concurrency ? Describe about concurrency control techniques. 10  
(b) What are various types of distributed databases ? Discuss their advantages and disadvantages. 10
7. (a) What is DBA ? Discuss the role & significance of DBA. 10  
(b) Describe about client-server architecture in details. 10
8. Write short note on any ~~two~~ of the following :  
10 × 2 = 20
- (a) Sequential and Index files,
  - (b) Relational Model
  - (c) QBE and QLB
  - (d) Data Mining