

Subject : Database Design

Day : Tuesday
Date : 07/06/2016



Time : 10.00 AM TO 1.00 PM
Max Marks : 80 Total Pages : 1

N.B.;

- 1) Attempt **ANY FIVE** questions from Section – I and **ANY TWO** questions from Section – II.
 - 2) Answer to both the sections should be written in **SAME** answer book.
 - 3) Draw neat diagram and give illustrations **WHEREVER** necessary.
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SECTION - I

- Q.1** Define database. Explain database users in detail. (10)
- Q.2** What is data model? Briefly explain Network data model with its advantages and disadvantages. (10)
- Q.3** What do you mean by normalization? What are the advantages and disadvantages of normalization? (10)
- Q.4** Explain object oriented database design. (10)
- Q.5** Discuss the problems of concurrent transactions. (10)
- Q.6** What is distributed database? Discuss the relative advantages of centralized and distributed database. (10)
- Q.7** Define transaction. Explain different states of transaction with suitable diagram. (10)

SECTION - II

- Q.8** Draw an ER diagram for college management system and clearly indicate entities, attributes, relationships and key constraints. (15)
- Q.9** Explain 1NF, 2NF, 3NF and BCNF with suitable example. (15)
- Q.10** Write short notes: (15)
- a) File Processing System
 - b) Cardinality in database

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