

Total No. of Questions : 12]

P822

T.E. Comp Sem-I

NOV-DEC-2012

2008 Pattern

SEAT No. :

[Total No. of Pages : 3

[4263] - 341

T.E. (Computer/ I.T. Engg.)

**DATABASE MANAGEMENT SYSTEMS**

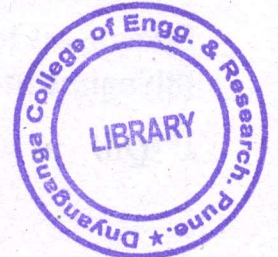
**(2008 Pattern) (Semester - I)**

Time : 3 Hours]

[Max. Marks : 100

Instructions to the candidates :

- 1) Solve Section-I Q. 1 or Q. 2, Q. 3 or Q. 4, Q. 5 or Q. 6.
- 2) Solve Section-II Q. 7 or Q. 8, Q. 9 or Q. 10, Q. 11 or Q. 12.
- 3) Answers to the two sections must be written in separate books.
- 4) Neat diagrams must be drawn wherever necessary.
- 5) Assume suitable data if necessary.



**SECTION - I**

- Q1)** a) Explain various components and database system structure with the help of neat diagram. [10]  
b) Explain multi-user DBMS architecture. [4]  
c) Specify the CODD's norms to be specified by RDBMS. [4]

OR

- Q2)** a) What are the various features of extended E-R diagrams [EER]. Explain in details with the help of example. [10]  
b) What is a data abstraction? [4]  
c) What is integrity constraint? Explain referential integrity constraints. [4]

- Q3)** a) Consider the relational database : [8]

dept (dept \_ no, dname, LOC)  
emp (emp \_ no, ename, designation)  
project (proj \_ no, proj \_ name, status)  
empproject (emp \_ no, proj \_ no)  
dept and emp are related as 1 to many  
proj and emp are related as 1 to many

Write relational expressions for the following :

- i) List all employees of 'INVENTORY' department of 'PUNE' location.
- ii) Give the names of employees who are working on 'Blood Bank' project.
- iii) Give the name of managers from 'MARKETING' department.
- iv) Give all the employees working under status 'INCOMPLETE' projects.

**P.T.O.**

