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SEAT No.:

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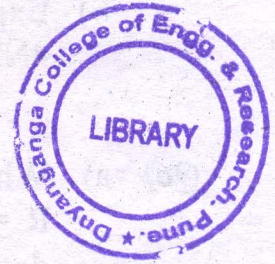
**T.E. (Computer Engg.) (Common To I.T.)
DATABASE MANAGEMENT SYSTEMS
(2008 Pattern) (Sem. - I)**

Time : 3 Hours]

[Max. Marks : 100

Instructions to the candidates:

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



SECTION - I

- Q1) a) Compare various data models. [10]
b) Explain in detail the different levels of data abstraction. [4]
c) Compare DBMS and file processing system with following points. [4]
i) Redundancy.
ii) Access Control.

OR

- Q2) a) What is difference between specialization and generalization? Why do we not display this difference in schema diagram. [6]
b) Specify the CODD's norms to be specified by RDBMS. [6]
c) What are the enhancements that distinguish the EER model from the ER Model? Explain with example. [6]

- Q3) a) Consider following relational database employee (emp _ name, street, city). [8]

Works (emp _ name, company _ name, salary).

Company (company _ name, city).

Manages (emp _ name, manager _ name).

For each of the given query, given expression in relational algebra.

- i) Find emp _ name, street and cities of residence whose salary exists in between 30,000 to 40,000 and work for XYZ Ltd.
- ii) Find the name, street and cities of employees who live in the same city as the company they work for.

P.T.O.

