BACHELOR IN COMPUTER APPLICATIONS (BCA)

Term-End Practical Examination

03054

June, 2010

CS-67P : RDBMS LAB

Time allowed : 2 hours

Maximum Marks : 75

Note : *There is one **compulsory** question in this paper carrying **50** marks. Rest 25 marks are for viva-voce. You may use any RDBMS for implementation. Make suitable assumptions, if any.*

1. A town planning office maintains the following information about the residents :

   - the basic information about the residents–like name, age, qualification, residential address etc. Each resident is given a unique id.

   - it keeps track about the relationships among residents specifically head of the family and dependents.

   - it also keeps track of assets of the residents specifically the house and cars owned by a resident.

   - in addition, it keeps track of work places of the working people in the town. This information may be used to determine the approximate distance one person need to travel for his/her work.

   Perform the following activities for the town planning office :

   (a) Design and implement the normalised relations/tables for the requirements given above. Include keys, constraints (including referential integrity constraints) and validation checks in your implementation.　　**20**

   (b) Enter about 5 - 6 sets of meaningful data in each of the relation/table.　　**10**

   (c) Design and implement the following queries/reports/forms for the office :　　**20**

   - A form to enter basic information of the residents.

   - A query to find the number/list of people travelling from "Maidan Garhi" to "Railway Station" for work. (Assume "Maidan Garhi" is a residential locality and "Railway Station" is a work place).

   - A query to find the number of people who own more than one car.

   - A list/report of head of the family and their dependents.

   - A form to enter the asset information of a resident.