

BACHELOR IN COMPUTER APPLICATIONS (BCA)**Term-End Practical Examination**

02467

June, 2011**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 database management system is proposed to be developed to keep track of voter's and their votes in an election. A voter is expected to vote for many positions in an election. The information that needs to be stored about a voter includes-
Voter_ID, voter_Name, voter_date of birth, voter_address. In addition the positions for which candidate has to vote are recorded as :
- Position, Candidate name, Candidate application.
- A voter then is asked to select at most one candidate for each position. This information is also recorded in a separate table. A voter can vote only once.
- Perform the following activities for the system given above -
- (a) Design and implement the normalised relations/tables for the requirements given above. You should include primary key in each table, validation checks and constraints including referential integrity constraints 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/forms/reports for the database : 20
 - (i) A form to enter information about a candidate for a position.
 - (ii) A query through which a list of candidates for each position is displayed.
 - (iii) A query that list all the positions for which election has been held.
 - (iv) A query that determines the winner of the election for each position.
 - (v) A report that lists the total number of voter's who have taken part in the election.