BACHELOR OF COMPUTER APPLICATIONS (BCA)
(Pre-revised)

00365

Term-End Practical Examination
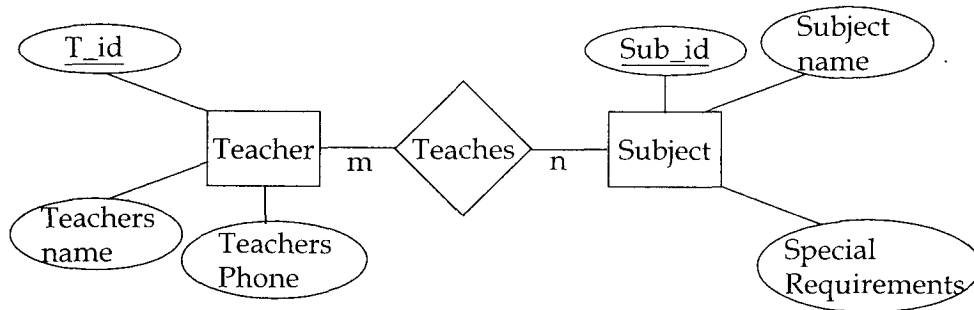## December, 2013
CS-67(P) : RDBMS LAB

Time allowed : 2 hours   *Maximum Marks : 75*

Note :   (i)   *There is **one compulsory** question in this paper carrying 50 marks. Rest **25 marks** are for viva-voce.*

       (ii)   *You may use any **RDBMS** for implementation.*

       (iii)   *Make and state suitable assumptions, if any.*

1.   A database system is to be designed to keep track of teachers teaching various subjects in a University. The following E-R diagram depicts it :

Please note that a teacher can teach many subjects and one subject may be taught by many teachers.

Perform the following tasks for the E-R diagram given above :

(a)   Design and implement normalised relations/tables for the given E-R diagram. You must include primary key, validation checks and referential integrity constraints in relations/tables.   **20**

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

(c)   Design and implement the following queries/reports/forms for the database   **20** created by you :

(i)   Create two forms-first for entering teacher information and second for entering subject information.

(ii)   Write a query that displays the subject name of the subjects taught by teacher whose T-id is "001".

(iii)   Write a query that lists all the subjects whose special requirements field contains "Practical Course".

(iv)   List the teacher–id and the number of subjects taught by him/her.

(v)   Create a subject wise list and the teacher names who can teach those subjects.