

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

Term-End Practical Examination

December, 2014

00464

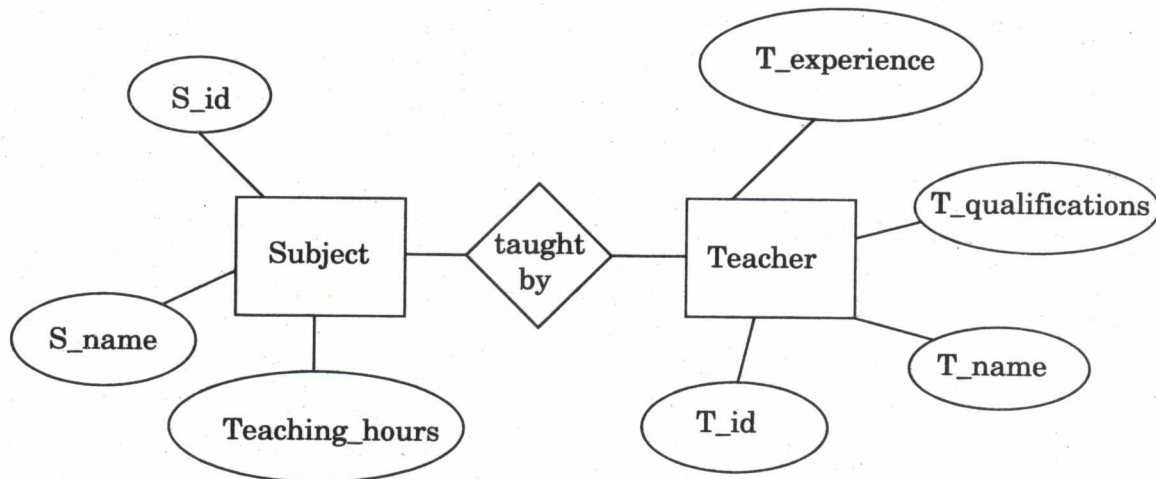
CS-67(P)/S4 : RDBMS LAB

Time : 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 subjects and teachers. The following E-R diagram depicts it :



A subject can be taught by several teachers and a teacher may teach many subjects.

Perform the following tasks for the E-R diagram :

- (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 the relations/tables. 20
- (b) Enter about 5 – 6 sets of meaningful data in each table. 10
- (c) Design and implement the following queries/forms/reports for the database : 20
 - (i) Create two forms – one for entering subject information and second for entering teacher information.
 - (ii) List the names of the teachers who have more than 2 years experience.
 - (iii) Count the number of teachers who have taught a subject named “RDBMS”.
 - (iv) List the subjects in the alphabetical order of subject names.
 - (v) Display the S_id, S_name, T_name, T_qualifications for the subjects that are taught by those teachers.