

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

**Term-End Practical Examination**

**December, 2015**

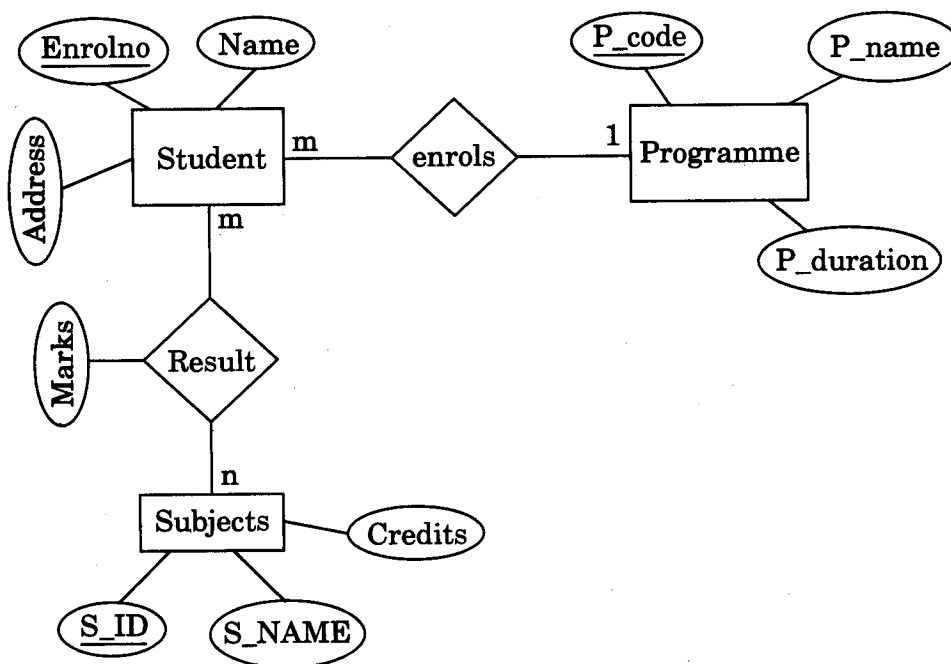
**CS-67(P)/S1 : RDBMS LAB**

*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 University has many programmes. A student can take any course in the University. The following E-R diagram shows these hypothetical entities and relationships :



The assumptions are :

- A student can enrol only for one programme.
- Student can opt for many courses and one course can be opted by many students.
- S\_ID is subject id; P\_code is programme code and Enrolno is enrolment number.

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

- (a) Design and implement normalised relations/tables. You must include primary key, validation checks and referential integrity constraints in the relations/tables. 20
  - (b) Enter 5 – 6 sets of meaningful data in every table created by you in part (a). 10
  - (c) Design and implement the following queries/reports/forms for the database so created : 20
    - (i) Create two forms — one for entering the student information and the other for entering the programme information.
    - (ii) List the enrolment number and name of all the students who have enrolled in the programme whose programme code is BCA.
    - (iii) Display all the results of the student whose enrolment number is “0001”.
    - (iv) Write SQL command to count the number of programmes offered by the University.
    - (v) Create a report displaying S\_ID, S\_NAME and credits of all the subjects in the alphabetical order of S\_NAME.
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