

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

Term-End Practical Examination

June, 2017

00115

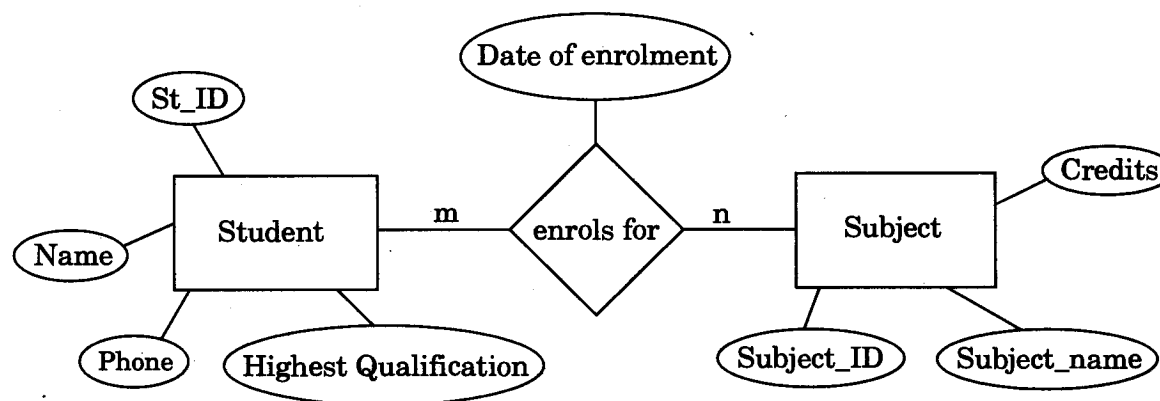
CS-67(P)/S4 : RDBMS LAB

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. Consider the following ERD that shows relationship between the students who have enrolled for various online subjects (courses) :



A student can enrol for many subjects, and one subject may have many students. Perform the following tasks for the ER diagram given above :

- (a) Design and implement normalised relations/tables for the ER diagram. You should include primary key, validation checks and referential integrity constraints in your implementation. 20
- (b) Enter 5 – 6 sets of meaningful data in every table that you have created in part (a). 10

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

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- (i) Create two forms — one for entering student information and the other for entering subject information.
 - (ii) List St_id of all those students who have enrolled after 01-01-2016.
 - (iii) List all the details of students whose highest qualification is “graduate” and who have enrolled for subject having Subject_ID as “S01”.
 - (iv) Count the number of courses for which the student whose St_ID is “STUDENT001” has enrolled.
 - (v) Create a list of all the subjects on offer in order of their Subject_name.
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