BACHELOR OF COMPUTER APPLICATIONS (Pre-revised)

(BCA)

00304

Term-End Practical Examination

December, 2014
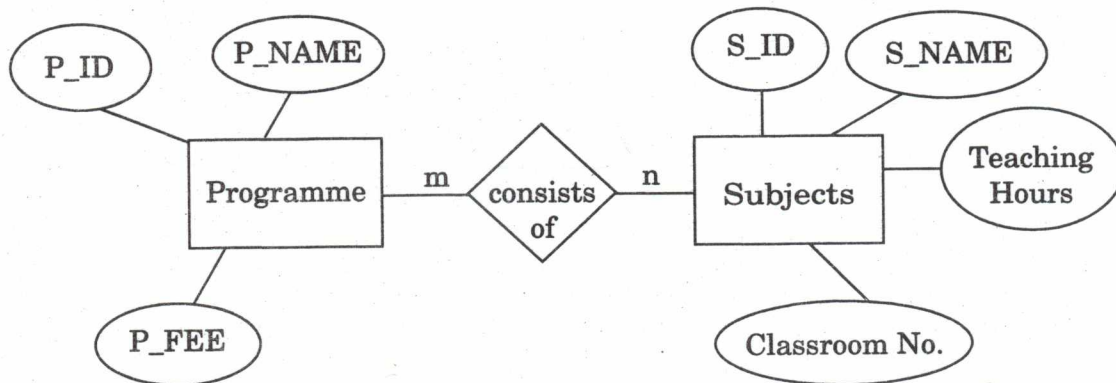
CS-67(P)/S2 : RDBMS LAB

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 programmes and subjects of those programmes. The following E-R diagram shows their relationship :

Please note that a programme consists of many subjects and one subject may be part of at least one programme and at most 5 programmes.

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

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

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

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

    (i) Create two forms – one for entering programme data and second for entering subjects data.

    (ii) List all the subjects in which teaching hours are more than 20.

    (iii) Count the number of subjects that are part of the programme whose P_ID is "MCA".

    (iv) List P_ID, P_NAME of all those programmes which include "CS-67" as a subject. (CS-67 may be treated as S_ID)

    (v) Find the maximum and minimum fees of the programmes.

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