

**BACHELOR IN COMPUTER APPLICATIONS (BCA)****Term-End Practical Examination****December, 2012****02075****CS-67P : RDBMS LAB***Time allowed : 2 hours**Maximum Marks : 75*

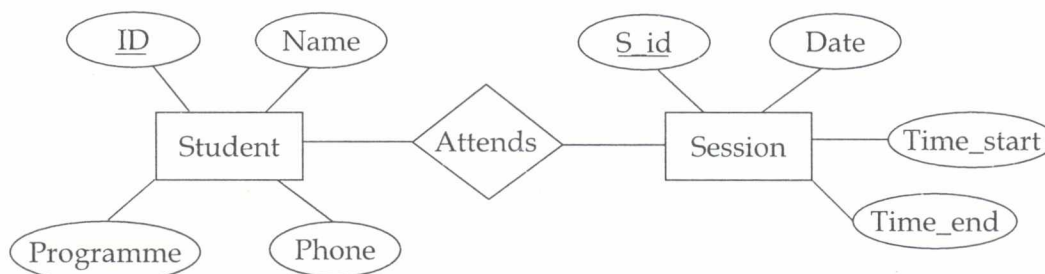
- 
- Note :**
- (i) There is **one compulsory** question in this paper carrying 50 marks. Rest 25 marks are for viva-voce.
  - (ii) You may use any RDBMS for implementation.
  - (iii) Make and state suitable assumptions, if any.
- 

1. A database system is to be designed for maintaining records of assignments submitted by students for different courses . A student needs to submit only one assignment for every course s/he undertakes. The date of submission of assignment is also to be stored. The database can be used to list the student details, course details and assignments that are submitted by a student. Perform the following tasks for the proposed system :
- (a) Design and implement the normalised relations/tables for the proposed system. 20  
You must include primary key, validation checks and referential constraints in tables, wherever needed.
  - (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  
system.
    - (i) Create a form to enter information about a submitted assignment.
    - (ii) Create forms for student and course information entry.
    - (iii) Write queries to list the student and course details.
    - (iv) Write a query to find the number of students who has submitted assignments for course name "Database System".
    - (v) Create a report that shows the assignments submitted by a student.

**BACHELOR IN COMPUTER APPLICATIONS (BCA)****Term-End Practical Examination****December, 2012****01994****CS-67P : 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 student attendance in practical sessions of the course CS-67. The following ERD



Perform the following tables :

- (a) Design and implement normalised relations/ tables for the description given above. **20**  
You should include primary key, validation checks and referential constraints in tables wherever needed.
- (b) Enter about 5-6 sets of meaningful data in each of the table. **10**

(c) Design and implement the following forms/queries/reports :

20

- (i) Create forms to enter student information and session details.
  - (ii) Create a form that enters student attendance in a session.
  - (iii) Create a query that lists session id (s\_id), date and duration of all the sessions.
  - (iv) Create a query that finds the total number of sessions attended by student whose id is "1".
  - (v) Create a report that lists all the sessions attended by a student.
-

**BACHELOR IN COMPUTER APPLICATIONS (BCA)****Term-End Practical Examination****December, 2012****00285****CS-67P : 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 maintains the counsellor information of a study centre. The system maintains counsellor\_id, name, address, qualification (highest) about the counsellors; course\_id, coursename, credits about the courses; and courses for which a counsellor has been approved. A counsellor may be approved for many courses; also a course may have many approved counsellors. Perform the following tasks for the database system as described above :
- (a) Design and implement normalised relations/tables. You should include primary key, validation checks, and referential constraints in the tables, wherever needed. **20**
- (b) Enter about 5-6 sets of data in each table. **10**
- (c) Design and implement the following queries/forms/ reports for the database system : **20**
- (i) Create forms that allows entry of counsellor information and course information.
- (ii) Create a form that allows entry of information relating to approval of a counsellor for particular courses.
- (iii) Create a query that finds the list of counsellors for the course named "Database system".
- (iv) Create a query to find the number of courses for which a counsellor whose id is 1, has been approved.
- (v) Create a report that provides course wise list of counsellors.

## BACHELOR IN COMPUTER APPLICATIONS (BCA)

## Term-End Practical Examination

01721

December, 2012

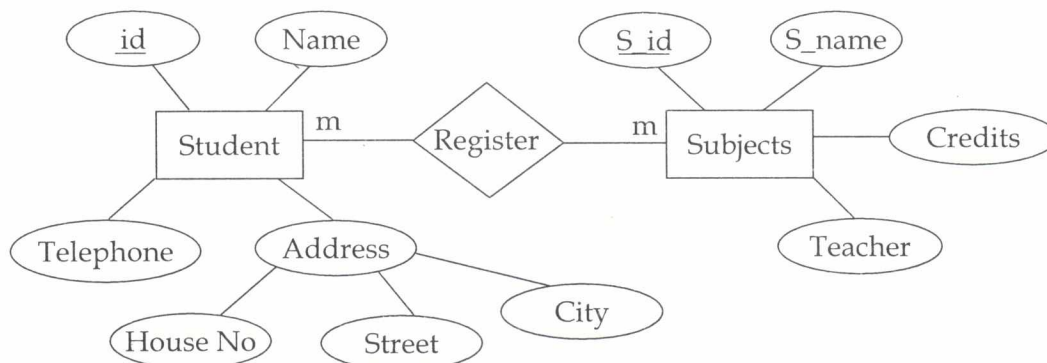
CS-67P : RDBMS LAB

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. Consider the following ER Diagram :



Please note that a subject is taught by only one teacher. Perform the following activities for the ER diagram given above :

- (a) Design and implement the normalised relations/tables for the ERD. You should include primary key, validation checks and referential constraints, wherever needed. 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 forms to enter information about student and subjects.
  - (ii) Create a form to enter registration of students for different subjects.
  - (iii) Create a query to show the list of subjects sorted alphabetically on subject name.
  - (iv) Create a query that counts the number of subjects taken by a student whose id is 1.
  - (v) Create a report that produces subject wise attendance lists.
-