

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

Term-End Practical Examination

December, 2015

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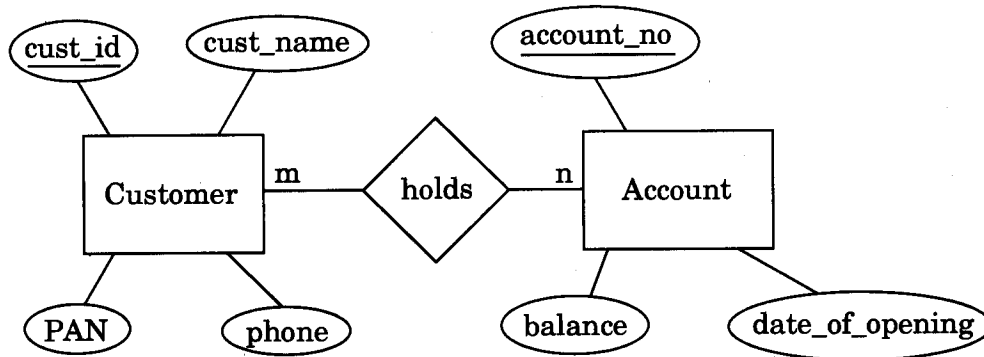
CS-67(P)/S4 : RDBMS LAB

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 customers and their bank accounts. The following E-R diagram depicts it :



Please note the following assumptions :

- Cust_id and account_no are the primary keys of Customer and Account entities respectively.
- A customer can have many accounts. An account can also be joint (in the name of many customers).
- PAN is the unique permanent account number of a customer.

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 your implementation. 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 the customer information and the other for entering the account information.
 - (ii) Find the sum of all the account balances held by a customer whose cust_id is “C001”.
 - (iii) List the account number of the account which has maximum balance.
 - (iv) List the details of all the account holders of the account whose account_no is “A001”.
 - (v) Display the information of all the customers in the order of customer name (cust_name).
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