

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

Term-End Practical Examination

December, 2015

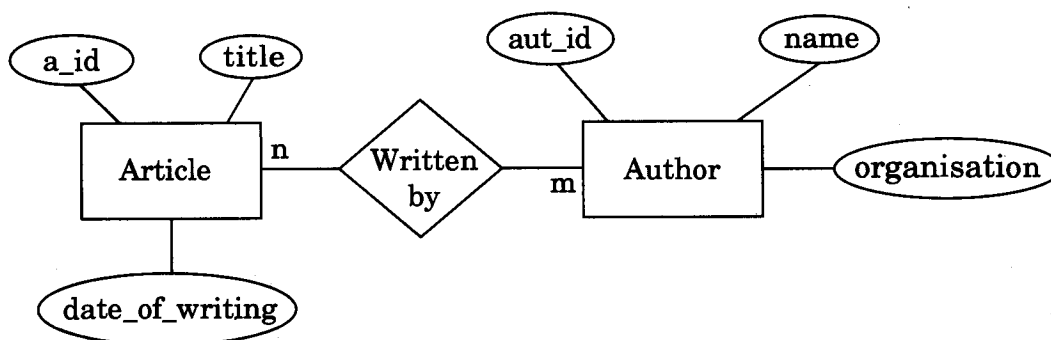
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CS-67(P)/S2 : RDBMS LAB

*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 record data about articles and authors. The following E-R diagram shows this :



The assumptions of the E-R diagram are :

- An article can be written by many authors, also an author may have written many articles.
- a_id is the article id and aut_id is the author id.

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 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 system created as above : 20
 - (i) Create two forms — one for input of information of an article and the other for input of information about an author.
 - (ii) List all the articles written in 2015.
 - (iii) List the author id, author name and organisation of the author who has published maximum number of articles.
 - (iv) Display the title and names of all its authors, for the article whose id is “A001”.
 - (v) List the details of all the authors, in the alphabetical order of author name.
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