

**Advanced Diploma in Information Technology (ADIT) /  
Bachelor in Information Technology (BIT)**

**Term-End Practical Examination 00660**

**December, 2011**

**CST-203P : RELATIONAL DATABASE MANAGEMENT SYSTEM**

*Time allowed : 1 hour*

*Maximum Marks : 30  
(Weightage : 25%)*

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**Note :** *There is one compulsory question carrying 20 marks. Rest 10 marks are for viva-voce. Make suitable assumptions, if any.*

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1. A research library keeps track of its publication. A publication has a title, publication number, date of publication and related area. Each publication is written by one or many authors. An author has an ID, name and research area. An author can write many publications. Perform the following activities for the research Library :
  - (a) Design the appropriate relations for the research library. 4
  - (b) Create the tables for the relations designed in part (a) using a RDBMS. You should specify the key, data types, validation checks and constraints (including referential integrity constraints), if any. Enter about 5 sets of meaningful data in each table. 4
  - (c) Create two views for the relations : 4
    - One for the library administrator who has access to all data.
    - One for the author who wants to see all the lists of publications of his/her.
  - (d) Write four queries using SQL such that all the tables and attributes are covered in some query (at least two of these queries must use join operation) 8