

# BACHELOR IN INFORMATION TECHNOLOGY (BIT)

## Term-End Practical Examination

00450

December, 2011

### CSI-20P : DATABASE MANAGEMENT SYSTEMS

Time allowed : 1 hour

Maximum Marks : 30  
(Weightage : 15%)

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

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1. Consider the following schema :

Student (st\_id, st\_name, st\_phone, st\_programme)

Programme (p\_id, p\_name, p\_duration)

Projects (st\_id, p\_id, date\_of\_submission)

A student may do more than one projects in a programme, whereas a project may be done by more than one student. Perform the following activities for the details as above :

- (a) Identify the key of each table. Create the tables specifying the keys, data types, and constraints (including referential integrity constraints) Insert 5-6 sets of meaningful data in each of the table. 8
- (b) Write and run the following queries using SQL : 12
- (i) List all the projects submitted by student whose name is "Manoj"
  - (ii) List the ID and name of the students who have worked on the project whose id is "P001" or P002".
  - (iii) Find the total number of projects.
  - (iv) Find the number of projects done by each student.