Roll No. ....

## BCA-502

## B. C. A. (Fifth Semester) EXAMINATION, Dec., 2012

## Paper Second

A CONTRACTOR OF THE PROPERTY O
BASICS OF DATABASE MANAGEMENT SYSTEM
Time: Three Hours ] [ Maximum Marks: 75
Note: Section A is compulsory. Attempt any seven questions from Section B and one question from Section C.
Section - A
1. Explain the database management system architecture with a diagram.
2. Explain how a DBMS can be secured.
3. What is BCNF? Explain with an example how is it different from 3NF.
Section - B
4. Explain the need of primary and foreign keys with suitable examples.
5. How do you implement a hierarchical data model?  Explain through an illustration
Explain join dependency and multivalued dependency
with the help of an example.

Explain the responsibilities of Database Administrator. 6
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8.	What do you mean by Integrity Constraints ? Explain.
	6
9.	What is RDBMS? What are the characteristics of RDBMS?
10.	What is Distributed Database Management System ? Explain.
11.	Explain the Oracle tools and Oracle data types. 6
	Explain on views and security using SQL. 6
13.	Explain insert, delete and update anomalies for a relation
	(R), with examples.
	Section — C
14.	What is Normalization? Explain first, second and third forms with an example describing the advantages of normalization.
15.	Construct an E-R diagram for an employee payroll system
	and explain it.