END TERM EXAMINATION

SECOND SEMESTER [BCA] MAY-JUNE 2016

Paper Code: BCA-110	Subject: Database Management System
Time : 3 Hours	Maximum Marks :75

Note: Attempt any five question including Q.no.1 which is compulsory. Select one question from each Unit.

Q1 Attempt **any five** parts of the following: **(5x5=25)**
(a) Differentiate between Primary Key, Candidate Key
(b) Define Relational Algebra
(c) What are anomalies
(d) Explain stored VS Multivalued attributes
(e) Explain EER and ER Diagram
(f) Discuss about Normalization

UNIT-I

Q2 (a) Explain the three schema architecture with diagram. Compare traditional approach and DBMS Approach. **(8)**
(b) Explain Domain, Entity Integrity and referential integrity constraints. **(4.5)**

Q3 (a) Design an E-R schema for a database to store information about professors, courses and course sections in the university Database system. (You can write your assumptions) **(8)**
(b) What do you mean by Data independence. Differentiate between physical and Logical Data independence. **(4.5)**

UNIT-II

Q4 (a) What is a join, why is it required? What are the categories of join. Explain selfjoin, outer join, natural join etc. **(8)**
(b) Explain group by clause and having with an example. **(4.5)**

Q5 (a) Write Sql queries for the following tables. **(8)**

Employee

Empno	Ename	Job	MGR	Hiredate	Sal	Comm.	Deptno.

Department

Dname	Dnumber	Dloc

(a) List all the employee names along with their salary.
(b) List the Different jobs.
(c) List the employee names having 'I' as the second character.
(d) List the employees who are from department 30 and their salary is more than 40,000.

(b) What is view. Explain with the help of an example. **(4.5)**

[P.T.O.]