**DBMS Assignment 3**

Q1. Discuss Join in detail. Also explain different types of join with proper example.

Q2. What is the difference between INNER JOIN and LEFT JOIN? Discuss with example

Q3. Write code for following program in PL/SQL

1. Pl/SQL Program for Palindrome Number
2. PL/SQL Program for Armstrong Number

Q4. Given the relations

*employee (name, salary, deptno)* and  
*department (deptno, deptname, address)*

Which of the following queries cannot be expressed using the basic relational algebra operations (U, -, x, π, σ, p)?

Q5.  Database table by name Loan\_Records is given below.

Borrower Bank\_Manager Loan\_Amount

Ramesh Sunderajan 10000.00

Suresh Ramgopal 5000.00

Mahesh Sunderajan 7000.00

What is the output of the following SQL query?

SELECT Count(\*)

FROM ( (SELECT Borrower, Bank\_Manager

FROM Loan\_Records) AS S

NATURAL JOIN (SELECT Bank\_Manager,

Loan\_Amount

FROM Loan\_Records) AS T );

(A) 3  
(B) 9  
(C) 5  
(D) 6

**Q6. Consider the above tables A, B and C. How many tuples does the result of the following SQL query contains?**

SELECT A.id

FROM A

WHERE A.age > ALL (SELECT B.age

FROM B

WHERE B. name = "arun")

Q7. Discuss embedded SQL in detail with proper example.