## **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
  - a) PI/SQL Program for Palindrome Number
  - b) 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  $(U, -, x, \pi, \sigma, p)$ ?

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.