Total No. of Questions: 8]

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Roll No.....

CS-503 (GS)

B.E. V Semester

Examination, December 2017

Grading System (GS)

Database Management System

Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

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ii) All questions carry equal marks.

What is DBMS? Explain basic architecture of DBS?

Draw E-R diagram for Library management system and covert into set of table schema.

3. We have following relations:

EMP(empno, ename, jobtitle, managerno, hiredate, sal, comm, deptno) DEPT (deptno, dname, loc)

Answer the following queries in SQL.

- find the Employees working in the department 10, 20, 30 only.
- ii) Find Employees whose names start with letter A or letter a.
- iii) Find Employees along with their department name.
- iv) Find Employees whose manager is KING.
- v) Find the Employees who are working in Smith's department.
- vi) Find the Employees who get salary more than Allen's salary.
- vii) Display employees who are getting maximum salary in each department.

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Consider the employee data. Give an expression in SQL for the following query:

Employee(employee-name, street, city)

Works(employee-name, company-name, salary)

Company(company-name, city)

Manages(employee-name, manager-name)

- Find the name of all employees who work for State Bank.
- Find the names and cities of residence of all employees who work for State Bank.
- iii) Find all employee in the database who do not work for State Bank.
- iv) Find all employee in the database who earn more than every employee of UCO Bank.
- 5. How relational algebra is different from relational calculus?
- Consider a relation R with five attribute A,B,C,D,E having following dependencies: A->B, BC->E and ED->A
 - i) List all keys for R
 - ii) In which normal form table is justify your answer.
- Explain functional dependencies and its types with example.
- 8. Answer any four of the following:
 - a) What do you mean by aggregation?
 - b) What do you mean by check constraints?
 - c) What is dangling tuple problem?
 - d) Define locks.
 - e) What is the difference between OODBMS and RDBMS?
 - f) What is triggers?

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