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Roll No.

Time: 03 Hours

Total No. of Questions: 09]

[Total No. of Pages: 03

B. Tech. (Sem. - 6th)

RELATIONAL DATABASE MANAGEMENT SYSTEM - II

SUBJECT CODE: CS-302

Paper ID: [A0470]

[Note: Please fill subject code and paper ID on OMR]

Maximum Marks: 60

Instruction to Candidates:

- 1) Section - A is Compulsory.
- Attempt any Four questions from Section B. 2)
- Attempt any Two questions from Section C. 3)

Section - A

Q1)

 $(10 \times 2 = 20)$

- Write the functions of a DBA. a)
- What are the structural constraints? Give example. b)
- What is the difference between conceptual view and external view of a c) database?
- Write SQL statements: to see the structure of a table, and to list the d) constraints on the specific table of the database.
- What is the difference between Foreign Key and Primary Key? **e**)
- Create a view in SQL. How it differs from base table? f)
- What is the importance of cursor? Write the syntax to declare a Cursor g) for select statement.
- What are the applications of Query by Example? h)
- i) What are the components of a Package? Explain.
- What is the difference between trigger and procedure? **i**)

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Section - B

 $(4 \times 5 = 20)$

- Q2) Explain, how different normal forms normalizes database with at least one example. Also specify, how these are helpful in good database design.
- Q3) Consider, the following database schema for supplier-parts database (suppliers (Sno) supply parts (Pno) in different cities):

Supplier (Sno, Sname, date_ of Birth)

Parts (Pno, Pname, color, weight, city, Sno)

Write SQL statements to:

- (a) List Sno, Sname, Pno (to which Sno supplies parts) for each employee.
- (b) Add a new constraint of uniqueness on Sname.
- (c) Change the color of each Pno > 55 to 'Pink'.
- (d) List the Sno, who are supplying total weight > 1000 from parts table.
- (e) Add a new attribute SFatherName in Supplier table.
- Q4) Explain in brief Oracle server.
- Q5) Write a procedure to add any three numbers, given by the user.
- Q6) (a) What is index? How, the different types of indexes are created?
 - (b) Write short note on Transact-SQL PLUS.

Section - C

 $(2\times 10=20)$

Q7) Consider the following schema:

Employee (EmpNo, Name, Dno, salary, designation)

department (Dno, deptt_name, Headno)

Dependent (EmpNo, Dependent_name, DOB)

In the above schema, domain of headno is same as that of EmpNo. Write queries in SQL to:

- (a) List the employees getting the salary > 5000 in Ascending order.
- (b) Add a new record in the above schema.
- (c) List the department details paying Average salary > 1000 to its employees.
- (d) Increase the salary of all the employees of Dno>2, whose name start with letter 'R' by 1000.
- (e) Count the dependents of each employee.

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- Q8) (a) What are different looping statements in PL/SQL. Explain the syntax of each with at least one example.
 - (b) Write short note on Security issues in DBMS.
- Q9) (a) Write a procedure to delete employee (consider database given in Q7) on the basis of EmpNo. Also write PL/SQL code to call this procedure.
 - (b) What is the difference between integrity constraints and database Triggers? Explain the syntax of different types of trigger with at least one example.

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