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B.Tech. (Sem. - 6th)
RDBMS - II

SUBJECT CODE: CS-302

<u>Paper ID</u>: [A0470]

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

Time: 03 Hours Maximum Marks: 60

Instruction to Candidates:

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

Section - A

Q1)

 $(10 \times 2 = 20)$

- a) What is Data Independence?
- b) What is a view? How it is related to data independence?
- c) What is Relational Calculus?
- d) What is Functional Dependency?
- e) What is 1 NF (Normal Form)?
- f) What is BCNF (Boyce-Codd Normal Form)?
- g) What is static SQL? How does it differ from dynamic SQL?
- h) How do you pass cursor variables in PL/SQL?
- i) Difference between an implicit & an explicit cursor.
- j) What is database security?

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 $(4\times 5=20)$

- Q2) What does ISAM stand for? Briefly describe the advantages of ISAM Indexes/Indices.
- Q3) What is a SQL server? Explain.
- Q4) What are the advantages and disadvantages of triggers?
- Q5) What is normalization? Explain normalization techniques using functional dependencies with relevant examples.
- Q6) Discuss views with relevant examples in SQL.

Section - C

 $(2\times10=20)$

- Q7) (a) List the basic features of embedded SQL.
 - (b) What are the various control structure of oracle?
- (a) List the types of integrity constraints used in Transact SQL.
 - (b) What are the advantages and disadvantages of triggers?
- Q9) Consider the relational database:

employee (empname, street, city)

works (empname, companyname, salary)

company (companyname, city)

manages (empname, managername).

Give an expression in the relational algebra/SQL for each request.

- (a) Find the names of all employees who work for first bank Corporation.
- (b) Find the names, street addresses and cities of residence of all employees who work for first Bank Corporation and earn more than 200000 per annum.
- (c) Find the names of all employees in this database who live in the same city as the company for which they work.
- (d) Find the names of all employees who earn more than every Employees of small Bank Corporation.



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