

Roll No.

Total No. of Questions : 09]

may-08

[Total No. of Pages : 02

Paper ID [CS302]

(Please fill this Paper ID in OMR Sheet)

B.Tech. (Sem. - 6th)

RELATIONAL DATABASE MANAGEMENT SYSTEM - II (CS - 302)

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 × 2 = 20)

- a) What are the table level constraints?
- b) List significant differences between a file-processing and a DBMS.
- c) What is data conversion function?
- d) Use the TRUNCATE TABLE statement to truncate a table.
- e) Use the COMMENT ON statement to add a comment to a table.
- f) What are the UNIQUE constraints?
- g) What are the advantages of PL/SQL?
- h) What are partitioned views?
- i) What are the advantages of indexes?
- j) What are the database triggers?

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Section - B

(4 × 5 = 20)

Q2) Explain all of the following types with SQL examples.

DROP Index

DROP Trigger

DROP Procedure

DROP Clause

TRUNCATE Table

Q3) Write the SQL commands for Grant and Revoke. And also explain the role of stored procedures in database management system?

- Q4) Demonstrate the use of four character functions; LOWER, UPPER, INITCAP, and LENGH.
- Q5) Discuss the various operations that can performed in relational algebra.
- Q6) What are Indexes, Package, Cursor and Views? Explain briefly with SQL examples.

Section - C

(2 × 10 = 20)

- Q7) Discuss the basic operations that can perform using relational algebra. Also explain the concept of referential integrity in database management system.
- Q8) The students passing in the various subjects are as follows:

STUDENT TABLE

| Student Code | Student Name |
|--------------|--------------|
| S901 | D Walters |
| S902 | A Hughes |

COURSE TABLE

| Course Code | Course Name |
|-------------|-------------|
| C12 | Science |
| C15 | Costing |
| C20 | Accounts |
| C30 | Languages |
| C45 | Mathematics |

MARKS TABLE

| Student Code | Course Code | Marks |
|--------------|-------------|-------|
| S901 | C12 | 71 |
| S901 | C20 | 89 |
| S901 | C30 | 42 |
| S901 | C45 | 67 |
| S902 | C15 | 54 |
| S902 | C30 | 91 |
| S902 | C45 | 76 |

Write the Relational Model for the following:

- (i) Find out the courses and marks of the student S901.
- (ii) Find out the marks of the students who have opted for the course C20.
- Q9) What are different types of normalization? Also explain the difference between BCNF and 3rd NF briefly.