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Total No. of Questions: 091

[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)

 $(10 \times 2 = 20)$

- 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?

Section - B

 $(4 \times 5 = 20)$

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?

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- **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
$$(2 \times 10 = 20)$$

- 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
\$901	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.

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