

(3 Hours)

Marks : 80

Q. 1

- a List all functional dependencies satisfied by the relation

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A	B	C
A1	B1	C1
A1	B1	C2
A2	B1	C1
A2	B1	C3

- b Write a stored Procedure to add two numbers
- c Define Terms : Primary Key and Foreign Key
- d Explain Generalization and Specialization.

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Q. 2

- a Explain ACID properties in Detail with example
- b Discuss the need of Normalization with example

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Q. 3

- a Explain the advantages of database approach over traditional file processing and differentiate between databases and file system.
- b Explain following relational algebra operations with proper examples.
- Project
 - Natural Join
 - Set Interaction
 - Select

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Q. 4

- a Consider Insurance Database given below and answer the following queries in SQL.

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Person(driver_id, name, address)

Car (license_no, model, year)

Accident (report_no, accident_date, location)

Owns (driver_id, license_no)

Participated (driver_id, license_no, report_no, damage_amount)

- Find Total number of people who owned car those are involved in accidents in 2018.
- Add new accident record in to database.
- Delete 'honda city' belonging to 'Kevin Peter'
- Find the number of accidents in which car belonging to 'Mark dales' were involved.

- b Construct an ER diagram for Car Insurance Company.

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Q. 5

- a Draw and Explain Database System Architecture
- b Explain steps in Query Processing and Optimization

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Q. 6

Write a Short Note on:

- a Shadow Paging Technique
- b Database Failure Classification
- c Views in SQL
- d Data independence in database system

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Correction in 1T01213 - S.E.(INFORMATION TECHNOLOGY)(SEM III) (CBSGS) (R-2012) / 49805 - DATA BASE MANAGEMENT SYSTEMS Q.P.Code: 78362

1 message

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Correction in **1T01213** - S.E.(INFORMATION TECHNOLOGY)(SEM III) (CBSGS) (R-2012) / **49805** - DATA BASE MANAGEMENT SYSTEMS

Q.P.Code: **78362**

pls add the following part in the above paper.

NOTE:- 1. Question **1** is Compulsory.2. Attempt any **THREE** questions from remaining.

3. Assume suitable data wherever required.

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