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SEAT No. _____

SARDAR PATEL UNIVERSITY

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Master of Computer Applications (M.C.A.) II - Semester Examination

PS02CMCA23 DBMS - II

Friday, 12th April, 2019

Time: 10:00 am to 1:00 pm

Max. Marks: 70

Q.1 Write an appropriate answer from the following multiple choice questions: [8]

1. _____ is not a parameter mode in procedure or function.

a. IN	b. Out In
b. OUT	d. In Out
2. _____ is invokes implicitly.

a. Procedure	b. Function
c. Trigger	d. Package
3. _____ exception is raised when SELECT..INTO statement matches more than one row.

a. NO_DATA_FOUND	b. TOO_MANY_ROWS
c. VALUE_ERROR	d. None of these
4. _____ is not a cursor attribute.

a. %type	b. %found
c. %rowcount	d. %isopen
5. In _____ data model the concept of graph data structure is used.

a. Network	b. Hierarchy
c. Relational	d. Object-Oriented
6. _____ relational algebra operator is used to fetch rows from relation which satisfies a given condition.

a. σ	b. ρ
c. X	d. Π
7. A relation is in _____ when there must not be any transitive dependencies of a non-prime attribute on a key.

a. 1NF	b. 2NF
b. 3NF	d. 4NF
8. Which of the following is not a function of data mining?

a. Association	b. Regression
c. Clustering	d. None of these

Q.2 Answer the following questions. (Any Seven) [14]

1. Explain MIN & TRIM function with an example.
2. Define : Exception & Trigger
3. Explain Simple Loop and For Loop with an example.
4. In briefly explain Grant and Revoke statement.
5. Difference between commit and rollback.
6. Explain any one conceptual data model with an example.
7. Explain System Privileges and Object Privileges in brief.
8. Difference between supervised and unsupervised learning.
9. Write a Tuple relational calculus (TRC) Query for the following.
Employee (Fname , Mname , Lname , Addr , Birth_dt , Dept_name)
 "To retrieve first name and address of employees who belongs to sales department."

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Q.3 [A] List the cursor attributes. Explain steps to handle explicit cursor with an example. [6]

[B] Explain the steps to handle predefined and user defined exception with an example. [6]

OR

[B] List features of PL/SQL. Write a PL/SQL block to insert record in Product (Product_id, Product_name, Product_price) table using %type or %rowtype. [6]

Q.4 [A] Write a short note on triggers. [6]

[B] Explain Procedure and Function with an example. [6]

OR

[B] Explain package header and body part with an example. [6]

Q.5 [A] Explain any two application architecture in detail. [6]

[B] List data warehouse features. List data warehouse applications. Difference between Data Warehouse and Operational Database. [6]

OR

[B] Explain performance tuning and optimization. [6]

Q.6 [A] List relational algebra operators and explain any five of them with an example. [6]

[B] Normalize the following relation up to 3NF.
(Student_Id, Student_Name, Student_Address, Course_ID, Course_Name, Grade, Grade Value). [6]

Assumptions:

- i. A Course may have multiple students.
- ii. Each student belongs to only one course.
- iii. Students may have the same grade.

OR

[B] In context of EER, Explain Inheritance, Disjointness constraint & Overlap constraints. [6]

****X****

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