

SARDAR PATEL UNIVERSITY
Master of Computer Applications (M.C.A.) Sem - II (NC) Examination
PS02CMCA04 DBMS - II
Thursday, 1st November, 2018

Time: 10:00 am to 1:00 pm

Max. Marks: 70

Q.1 Give answers of following Multiple choice questions: [8]

1. _____ is not a oracle data type.
 a. Char b. Varchar c. String d. Date
2. Which is not a parameter mode in procedure or function?
 a. IN b. OUT c. INOUT d. None of these
3. _____ exception is raised when SELECT statement does not return any value.
 a. no_data_found b. zero_divide c. value_error d. none of these
4. _____ cannot invoke explicitly.
 a. Procedure b. Function c. Trigger d. None of these
5. Which of the following is not a join type?
 a. Left outer join b. Self join c. Natural join d. Personal join
6. "Every non-prime attribute of the relation must be fully functionally dependent on the key(s)" is called _____.
 a. 1 NF b. 2 NF c. 3 NF d. BCNF
7. Which of the following is not a property of transactions?
 a. Atomicity b. Concurrency c. Isolation d. Durability
8. Checkpoints are a part of _____.
 a. Recovery measures. b. Security measures.
 c. Concurrency measures. d. Authorization measures.

Q.2 Do as directed (Any Seven) [14]

1. What is Cursor? List types of cursor.
2. Difference between Char and Varchar.
3. Define: Package & Function
4. What is query optimization? List various methods.
5. Discuss backup and recovery in brief.
6. Discuss any two parameter modes of PL/SQL sub-programs.
7. Give an example of super type and subtype in context of EER diagram.
8. What is fully functional dependency? Explain with an example.
9. Explain %TYPE with an example.

- Q.3 [A] Which are cursor attributes? Explain with an example. [6]
[B] Explain materialized views and regular expressions. [6]
OR
[B] What is explicit and implicit exception? Explain with an example. [6]
- Q.4 [A] Discuss the syntax of procedure in PL/SQL. [6]
Employee (Emp_Id , Emp_name, Salary)
Write a procedure to display the name and salary in single column.
Write a function to accept emp_id as input parameter and return the employee salary.
- [B] Describe LOOP, WHILE-LOOP, and FOR-LOOP. control structure with an example. [6]
OR
[B] Explain Trigger in detail. [6]
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- Q.5 [A] **Answer the following questions** [6]
i. Differentiate between procedure and function.
ii. Explain any one conceptual data model in brief.
- [B] What is normalization? Explain 1 NF and 2 NF with an example. [6]
OR
[B] Write a short note on performance tuning and optimization. [6]
- Q.6 [A] In context of EER, explain specialization, generalization, disjoint constraint, overlap constraint, partial specialization, total specialization. [6]
[B] Explain SELECT, PROJECT, UNION relational algebra operators. [6]
OR
[B] Write a short note on data warehouse and data mining. [6]