

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2024
(Fourth Semester)

Branch – **INFORMATION TECHNOLOGY**

RDBMS Using Oracle

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** marks (5 x 1 = 5)

1. _____ executes low-level instructions generated by the DML compiler.

(i) DDL Interpreter	(ii) DML Compiler
(iii) Query Evaluation Engine	(iv) Query Optimization
2. _____ is a set of one or more attributes that allow us to identify uniquely a tuple in the relation.

(i) Primary Key	(ii) Foreign Key
(iii) Candidate Key	(iv) Super Key
3. Nested Query is also called as _____.

(i) Subquery	(ii) Exact Subquery
(iii) Vector Subquery	(iv) Positive Subquery
4. _____ is an ordered list of contents of a column or group of columns in a table.

(i) Index	(ii) Views
(iii) Sequence	(iv) Grouping
5. Oracle loads the compiled function in the memory area called SGA to execute the code quickly. _____.

(i) PGA	(ii) SGA
(iii) UGA	(iv) none of the above

SECTION - B (15 Marks)

Answer **ALL** Questions

ALL Questions Carry **EQUAL** Marks (5 x 3 = 15)

- 6 a. Briefly explain about different types of Database Users.
OR
b. Write short notes on various components of the Storage Manager.
- 7 a. Mention various binary operations of Relational Algebra.
OR
b. Explain in detail about major components of E-R Diagrams.
- 8 a. Specify many faces of the Select command.
OR
b. How will you join a table to itself?

Cont...

- 9 a. Explain about conditional & iterative control in PL/SQL.
OR
b. Explain about Union, Intersect and Minus clause in SQL.
- 10 a. Write a PL/SQL program to generate students mark details along with a solution.
OR
b. Explain about Different types of triggers.

SECTION -C (30 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** Marks

(5 x 6 = 30)

- 11 a. Illustrate in detail about Database Architecture.
OR
b. Describe in detail about Relational Databases.
- 12 a. Specify all the symbols used in the UML class diagram Notation.
OR
b. Describe in detail about BCNF.
- 13 a. Discuss in detail about NULL value, Default value and to check integrity constraints in Data Constraints.
OR
b. Enumerate in detail about Views in SQL.
- 14 a. Describe in detail about cursors in PL/SQL.
OR
b. Discuss in detail about Stored Procedures in PL/SQL.
- 15 a. Explain in detail about Database Triggers in PL/SQL.
OR
b. Explain in detail about stored functions.

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