

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2024
(Fourth Semester)

Branch – INFORMATION TECHNOLOGY

RDBMS USING ORACLE /
RELATIONAL DATABASE MANAGEMENT SYSTEM

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

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

1. _____ manages the allocation of space on disk storage and the data structures used to represent information stored on disk.
(i) Transaction Manager (ii) File Manager
(iii) Buffer Manager (iv) Integrity Manager
2. Minimal superkeys are called _____.
(i) Primary Key (ii) Foreign Key
(iii) Candidate Key (iv) Composite Key
3. A multicolumn primary key is called _____.
(i) Primary Key (ii) Foreign Key
(iii) Candidate Key (iv) Composite Key
4. _____ are masks placed upon tables that allows programmer to develop a method according to their desire.
(i) Index (ii) Views
(iii) Sequence (iv) Grouping
5. _____ are procedures stored in the database and are implicitly executed when the contents of the table are changed?
(i) Functions (ii) Procedures
(iii) Triggers (iv) Stored functions

SECTION - B (15 Marks)

Answer ALL Questions

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

- 6 a Briefly explain about different functions of DBA.
OR
b Write short notes on various components of the Query Processor.
- 7 a Mention various unary operations of Relational Algebra.
OR
b Examine in detail about Mapping Cardinalities.
- 8 a Give various ways to insert data into tables.
OR
b Outline about nested query in SQL statement.
- 9 a How will you create and drop index in a table?
OR
b Summarise about PL/SQL Block Structure.
- 10 a Write a PL/SQL program to generate Electricity Bill.
OR
b Narrate about creating and deleting trigger with an application.

SECTION -C (30 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** Marks

(5 x 6 = 30)

- 11 a Explain in detail about Data Abstraction in the View of Data.
OR
b Describe about Database Languages.
- 12 a Specify all the symbols used in the alternative E-R diagram notations.
OR
b Describe in detail about BCNF.
- 13 a Summarise about Primary Key, Unique Key and Foreign key in Data Constraints.
OR
b Discuss about any Eight oracle functions.
- 14 a Analyze about cursors in PL/SQL.
OR
b Enumerate about Union, Intersect and Minus clause in SQL.
- 15 a Explain in detail about Database Triggers.
OR
b Discuss in detail about stored functions.

Z-Z-Z

END