

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2022
(Fourth Semester)

Branch – INFORMATION TECHNOLOGY

RELATIONAL DATABASE MANAGEMENT SYSTEMS

Time: Three Hours

Maximum: 50 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10 x 1 = 10)

1. Name the ensuring enough free disk space availability for normal operations, are goals to be achieved by _____
(i) Database Manager (ii) Database System
(iii) Database Administrator (iv) Database Users
2. Identify the translation of the various DML statements into low-level system commands, is done by _____
(i) Query processor (ii) Storage processor
(iii) Query manager (iv) Storage manager
3. Which is a procedural language?
(i) Domain relational calculus (ii) Relational algebra
(iii) Tuple relational calculus (iv) Query language
4. Indicate the functional dependencies are the types of constraints that are based on
(i) Key (ii) Superset key
(iii) Key revisited (iv)
5. What type of construct returns true if the argument in the sub-query is void of duplicates.
(i) not null (ii) not unique (iii) unique (iv) null
6. Which of the following is to be created first?
(i) Report (ii) Query (iii) Form (iv) Table
7. Find the operation performs a set union of two “similarly structured” tables:
(i) Intersect (ii) Product (iii) Union (iv) Join
8. Which exception is also known as Oracle named exception handler?
(i) Internal exception (ii) Predefined exception
(iii) User defined exception (iv) External exception
9. Which statement is used to create a trigger?
(i) CREATE TRIGGER (ii) CREATE TRIGGERS
(iii) PRODUCE TRIGGER (iv) PRODUCE TRIGGERS
10. Find how many values can be returned from a given stored function?
(i) 0 (ii) 1 (iii) 2 (iv) 3

Cont...

SECTION - B (25 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 x 5 = 25)

11. a. Organize and explain the Database Design.
OR
b. Prepare a note on Transaction Management.
12. a. Narrate and explain about the Mapping Constraints.
OR
b. State and develop the Atomic Relation in First Normal form.
13. a. How to invoke SQL * plus? Summarize it.
OR
b. Produce about the various Data Types used in Oracle?
14. a. Explain about the Cursors and their types in PL/SQL.
OR
b. What are Views in databases? How can views are used in implementing security of data in database systems?
15. a. Classify: how do you delete a Trigger in database?
OR
b. How to create a stored function in SQL server?

SECTION -C (40 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 x 8 = 40)

16. a. Analyze the Database Architecture with neat diagram.
OR
b. Justify and point out the Database Languages.
17. a. Describe the Entity Relationship diagram.
OR
b. Point out the Structure of Relational databases explain with Codd's rules?
18. a. Identify the different types of Joins with example.
OR
b. Examine the Pattern matching and Range search in Oracle.
19. a. Summarize about the PL/SQL syntax.
OR
b. Categorize the Stored Procedure? Discover how to create a stored procedure with suitable example.
20. a. Classify the various types of Triggers with an example.
OR
b. Trace out the advantages of Functions in SQL.

Z-Z-Z

END