

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2022  
(Third Semester)

Branch – COMPUTER SCIENCE

RELATIONAL DATABASE MANAGEMENT SYSTEMS

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

1. Who created the first DBMS?  
(i) Edgar Frank Codd (ii) Charles Bachman  
(iii) Charles Babbage (iv) Sharon B. Codd
2. Which of the following is a component of the DBMS?  
(i) Data (ii) Data Languages  
(iii) Data Manager (iv) All of the above
3. In which of the following formats data is stored in the database management system?  
(i) Image (ii) Text  
(iii) Table (iv) Graph
4. Which of the following is the correct option for the given query?  
SELECT DISTINCT name  
FROM RDBMS  
WHERE ID IS NOT NULL;  
(i) The query gives all the possible RDBMS names where a finite value exists for ID  
(ii) The query gives the RDBMS names where a finite value exists for ID and it excludes identical names  
(iii) The query gives the names of the RDBMS that have a null ID and it also excludes identical names  
(iv) The query is syntactically wrong
5. What does the following query do?  
UPDATE student  
SET marks=marks\*1.10;  
(i) It decreases the marks of all the students by 90%  
(ii) It increases the marks of all the students by 10%  
(iii) It is syntactically wrong  
(iv) It increases the marks of all the students by 110%

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

6. a) Explain the view of data.  
(OR)  
b) How will you create table for student details with example.
7. a) What is entity relationship model in DBMS with example?  
(OR)  
b) Write a SQL Query for Deletion operations.
8. a) Write down the syntax for storing of data in the table.  
(OR)  
b) What is Range Searching?

Cont...

9. a) What is Joins? Give syntax.  
(OR)  
b) What is PL /SQL and what is it used for?
10. a) What are Procedures? Give syntax.  
(OR)  
b) Write the uses of Database triggers.

**SECTION -C (30 Marks)**

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

11. a) What is table? Explain with example.  
(OR)  
b) Explain the structure of Relational Database.
12. a) Explain the difference between a weak and a strong Entity set.  
(OR)  
b) Explain the Oracle Data types with example.
13. a) Explain about Data Constraints with example.  
(OR)  
b) Explain the Logical operators that are used in SQL.
14. a) Explain about Views and its types with example.  
(OR)  
b) Eleborate the PL/SQL structure with neat diagram.
15. a) Write a PL/SQL program for bonus calculation for the employee working in your concern.  
(OR)  
b) Write the procedure for creating Triggers.

Z-Z-Z

END