#### PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

## **BCA DEGREE EXAMINATION MAY 2024**

(Third Semester)

# Branch - COMPUTER APPLICATION

# RELATIONAL DATA BASE MANAGEMENT SYSTEMS

Time: Three Hours			Maximum: 50 Marks	
		Answer A	N-A (5 Marks) LL questions	
1			and retrieved from multiple tables theralled?	
2.		An is a set of entitied properties, or attributes i) Entity set iii) Relation set	ii) Attribute set iv) Entity model	
3.		In the schema (dept name, size) we have relations total inst 2007, total inst 2008. Which dependencies have lead to this relation?  i) Dept name, year-> size  ii) Year-> size  iii) Dept name-> size  iv) size->year		
4.		SQL stands for i) Structured Queue Language iii) Structured Query Lang	<ul><li>ii) Structured Query Language</li><li>iv) Simple Query Language</li></ul>	
5.		The SQL statement: SELECT ROUND (65.726, -1) F i) is illegal ii) garbage		0
SECTION - B (15 Marks) Answer ALL Questions ALL Questions Carry EQUAL Marks (5 x 3 = 15)				
6.	a. b.	Analyze about the Transaction Sketch and explain the purpos	n Management with an example. (OR)	
7.	a.	Write a note on Mapping Card		
8.	b. а.	Estimate any Three Extended State and explain the Example	es of Queries in Relational Algebra.	
	b.	Examine the DIVISION opera	(OR) ation in Relational Algebra.	
9.	a.	Determine about the additiona	(OR)	
10.	b. а.	Compare between Assertions a  Justify the Embedded SQL in		
10.	а. b.	Integrate and find the Database	(OR)	

9.

### 23CAU312/19CAU12 Cont...

## SECTION -C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$ 

- 11. a. Describe in detailed about the Database Application.
  - b. Estimate and identify the Database Architecture with neat diagram.
- 12. a. Discriminate about the E-R Design Issues with example. (OR)
  - b. Find out the Overview of the Design process.
- 13. a. Evaluate and Intimate the General definitions of Second and Third Normal forms.

(OR)

- b. Illustrate the Relational Algebra operations from Set Theory.
- 14. a. Prepare a detailed note on Views in SQL with example. (OR)
  - b. Mention how to Specifying Constraints in SQL.
- 15. a. Write the JDBC program to insert data into database?
  - b. Compute about the Database Stored Procedures and SQL/PSM.

END