23CAU312N

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BCA DEGREE EXAMINATION DECEMBER 2025
(Third Semester)

Branch – **COMPUTER APPLICATIONS**

RELATIONAL DATABASE MANAGEMENT SYSTEMS

Time: Three Hours Maximum: 75 Marks

SECTION-A (10 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** marks (10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	Which of the following refers the collection of data _____ a. datainfo b. database c. datakey d. info	K1	CO1
	2	The ____ level of abstraction describes how the data are actually stored. a. physical b. logical c. view d. large	K2	CO1
2	3	What are descriptive properties possessed by each member of an entity set? a. Entities b. Attributes c. primary d. keys	K1	CO2
	4	Each attribute, there is a set of permitted values, called the_____. a. Entity b. attributes c. domain d. names	K2	CO2
3	5	Which of the following is unary relational operation? a. Union b. Intersection c. Select d. Join	K1	CO3
	6	Show which normal form is based on the full functional dependency. a. First b. Second c. Third d. Boyce	K2	CO3
4	7	Which of the following includes tables, types, constraints, views, domains and other constructs. a. set b. relation c. elements d. value	K1	CO4
	8	Show which is not aggregate functions in SQL. a. count b. sum c. add d. avg	K2	CO4
5	9	What is a variable that refers to a single tuple from a query result? a. trigger b. view c. process d. cursor	K1	CO5
	10	JDBC means Java Data _____ Connectivity. a. Basis b. Basic c. Base d. Balance	K2	CO5

Cont...

SECTION - B (35 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** Marks (5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	Explicate purpose of Database systems.	K2	CO1
		(OR)		
	11.b.	Enumerate Database languages.		
2	12.a.	Draw E-R diagram for a university enterprise.	K3	CO2
		(OR)		
	12.b.	Point out mapping cardinality.		
3	13.a.	Give examples of queries in relational algebra.	K3	CO3
		(OR)		
	13.b.	Identify general definition of second normal form.		
4	14.a.	List out data types in SQL.	K4	CO4
		(OR)		
	14.b.	Analyze trigger components.		
5	15.a.	List out database programming techniques and issues.	K4	CO5
		(OR)		
	15.b.	Illustrate Embedded SQL with an example.		

SECTION -C (30 Marks)

Answer **ANY THREE** questions

ALL questions carry **EQUAL** Marks (3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Demonstrate Database.	K4	CO1
2	17	Illustrate the overview of architecture E-R model.	K4	CO2
3	18	Demonstrate unary and binary relational operations.	K4	CO3
4	19	Classify basic queries in SQL with examples.	K4	CO4
5	20	Enumerate JDBC programming steps.	K4	CO5

Z-Z-Z END