

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2025
(Third Semester)

Branch - COMPUTER SCIENCE WITH DATA ANALYTICS

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 one of the following provides the ability to query information from the database and to insert tuples into, delete tuples from, and modify tuples in the database? a) Data Manipulation Language b) Data Definition Language c) Query d) Relational Schema	K1	CO1
	2	Which one of the following is a set of one or more attributes taken collectively to uniquely identify a record? a) Candidate key b) Sub key c) Super key d) Foreign key	K2	CO1
2	3	What is the primary goal of normalization in a relational database? (a) To increase data redundancy and improve data sharing. (b) To improve data integrity and reduce data redundancy. (c) To decrease the number of tables in the database. (d) To speed up query performance by storing all data in one table.	K1	CO2
	4	How many rows can be inserted at a time using INSERT INTO statement with VALUES clause? a) Any number of rows b) Only one row c) One to ten rows d) One to five rows	K2	CO2
3	5	Which of the following command is used to modify the structure of a table in SQL? a) create b) drop c) alter d) insert	K1	CO3
	6	Which SQL operator is used for pattern matching? a) equals b) match c) like d) contains	K2	CO3
4	7	Which of the following is true about sub-queries? a) They execute after the main query executes b) They execute in parallel to the main query c) The user can execute the main query and then, if wanted, execute the sub-query d) They execute before the main query executes.	K1	CO4
	8	Which SQL command is used to give users access privileges to the database? a) create b) alter c) grant d) revoke	K2	CO4
5	9	What are the possible parameter modes for a PL/SQL stored procedure? a) in only b) out only c) in, out, and in out d) return only	K1	CO5
	10	Which keyword is used to recreate a trigger if it already exists? a) Create b) Replace c) Recreate d) Respawn	K2	CO5

Cont...

SECTION - B (35 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

 $(5 \times 7 = 35)$

Module No.	Question No.	Question	K Level	CO
1	11.a.	Examine database architecture. (OR)	K4	CO1
	11.b.	Classify the structure of relational databases.		
2	12.a.	Categorize the different types of attribute used in the E-R model. (OR)	K4	CO2
	12.b.	Classify the basic data types in ORACLE.		
3	13.a.	Determine how to modify the structure of table. (OR)	K5	CO3
	13.b.	Explain about the aggregate functions.		
4	14.a.	Determine the types of joins in SQL. (OR)	K5	CO4
	14.b.	Explain about granting and revoking permissions.		
5	15.a.	Write down the steps to create a stored procedure. (OR)	K6	CO5
	15.b.	Distinguish between stored procedures and stored functions.		

SECTION - C (30 Marks)

Answer ANY THREE questions

ALL questions carry EQUAL Marks

 $(3 \times 10 = 30)$

Module No.	Question No.	Question	K Level	CO
1	16	Analyze the major disadvantages of file-processing system.	K4	CO1
2	17	Explore on Boyce-codd normal form and illustrate with an example.	K4	CO2
3	18	Explain about the foreign key constraint.	K5	CO3
4	19	Determine the types of cursors.	K5	CO4
5	20	Discuss about the different types of triggers.	K6	CO5