

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION MAY 2026
(Fourth Semester)

Branch - INFORMATION TECHNOLOGY

RDBMS USING ORACLE

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 is a relational database management system (RDBMS)? a) MongoDB b) SQLite c) Redis d) Cassandra	K1	CO1
	2	Clarify which of the following is NOT a component of DBMS? a) Query Processor b) Database Engine c) Database Table d) Indexing Engine	K2	CO1
2	3	Recall in a relational database, a row is commonly referred to as a: a) Attribute b) Column c) Tuple d) Schema	K1	CO2
	4	Express which of the following _____ is a set of entities of the same type that share the same properties, or attributes. a) Entity set b) Attribute set c) Relation set d) Entity model	K2	CO2
3	5	Express which of the following is not a class of constraint in SQL Server? a) UNIQUE b) NOT NULL c) CHECK d) NULL	K1	CO3
	6	Explain which of the following is used to handle exceptions in SQL server. a) FINAL b) FINALLY c) THROW d) All of the mentioned	K2	CO3
4	7	Which of the following pair of block structures is mandatory to include in a PL/SQL block? a) BEGIN, END b) DECLARE, END c) EXCEPTIONS, BEGIN d) EXCEPTIONS, END	K1	CO4
	8	Predict which of the following command is used to direct the PL/SQL output to a screen. a) dbms_output.line b) dbms_output.put c) dbms_output.put_line d) utl_file.put_line	K2	CO4
5	9	Recall a stored procedure is a _____ set of one or more SQL statements. a) interpreted b) compiled c) pre-compiled d) none of the mentioned	K1	CO5
	10	Infer a trigger is a special kind of _____ that executes in response to a data manipulation event. a) Stored procedure b) Function c) View d) None of the above	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.	Summarize the purpose of database systems.	K2	CO1
		(OR)		
	11.b.	Explain the role of Data Mining in Information retrieval.		
2	12.a.	Examine the relational operations with suitable examples.	K3	CO2
		(OR)		
	12.b.	Explain the process of constructing an ER diagram for Library Management System.		
3	13.a.	Explain the following constraints PRIMARY KEY, UNIQUE, CHECK, FOREIGN KEY with an example.	K3	CO3
		(OR)		
	13.b.	Explain how to perform range searching and pattern matching.		
4	14.a.	Explain how to create reports in SQL * plus.	K4	CO4
		(OR)		
	14.b.	Explain how to grant and revoke permissions in SQL.		
5	15.a.	Explain how to use a stored function an example.	K4	CO5
		(OR)		
	15.b.	Justify the steps to ensure that deleting a stored function does not affect database integrity with 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	Explain the Database architecture with a neat diagram.	K4	C01
2	17	Justify the importance of normalization in Databases.	K4	C02
3	18	Analyze the multiple faces of the select command in SQL.	K4	C03
4	19	Analyze and design a stored procedure for a Library Management System that issues a book to a student and updates stock	K4	C04
5	20	Explain the difference between a BEFORE trigger and an AFTER trigger.	K4	C05

Z-Z-Z END