

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION DECEMBER 2024
(Third Semester)

Branch - **COMPUTER TECHNOLOGY**
DATABASE MANAGEMENT CONCEPTS

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	What is information about data called? a. Hyper Data b. Tera Data c. Meta Data d. Relations	K1	CO1
	2	In the relational model, which of the following is used to uniquely identify a tuple in a relation? a. Attribute b. Primary Key c. Foreign Key d. Domain	K2	CO2
2	3	Which of the following is a Data Manipulation Language (DML) command in SQL? a. Select b. Update c. Delete d. Create	K1	CO1
	4	Which SQL command is used to remove records from a database table? a. Insert b. Delete c. Update d. Alter	K2	CO2
3	5	Insert data into a two-dimensional matrix (table), which SQL statement would be used? a. INSERT INTO b. ADD COLUMN c. ALTER TABLE d. CREATE TABLE	K1	CO1
	6	Which SQL join returns only the rows where there is a match in both tables? a LEFT JOIN b RIGHT JOIN c INNER JOIN d FULL OUTER JOIN	K2	CO2
4	7	Which Oracle function is used to calculate the number of characters in a string? a. LEN b. LENGTH c. CHAR COUNT d. COUNT	K1	CO1
	8	What is the purpose of a function in Oracle? a. To perform data manipulation. b. To encapsulate reusable logic and return a single value. c. To create a trigger. d. To define a table structure.	K2	CO2
5	9	What type of database is MongoDB? a. Relational Database b. Document-oriented Database c. Key-Value Store d. Graph Database	K1	CO1
	10	Which method can be used to convert a cursor to an array in MongoDB? a. toArray() b. array() c. asArray() d. convertToArray()	K2	CO2

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.	Outline on the view of data.	K6	CO5
	(OR)			
	11.b.	Explain the role of a database administrator (DBA) in database management.		
2	12.a.	Explain the different types of data types in Oracle with examples.	K6	CO5
	(OR)			
	12.b.	Illustrate on how to insert data into a table.		
3	13.a.	What are the logical operators in SQL? Explain the use of AND, OR, and NOT with examples.	K6	CO3
	(OR)			
	13.b.	Describe the purpose of Date Functions in Oracle and provide examples of frequently used date functions.		
4	14.a.	Explain the advantages of using stored functions in DBMS.	K6	CO3
	(OR)			
	14.b.	What are the different types of triggers in a database?		
5	15.a.	Elaborate on Mongo DB collections.	K4	CO1
	(OR)			
	15.b.	What is indexing in MongoDB? Explain its significance.		

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 entity relationship model with an example.	K4	CO1
2	17	Evaluate the removing, Deleting, and dropping of tables in SQL with examples	K6	CO4
3	18	Explain the different types of SQL joins with examples.	K6	CO3
4	19	Discuss the advantages and disadvantages of using triggers in a database.	K3	CO2
5	20	Discuss on Mongo DB shell.	K6	CO5

Z-Z-Z

END