

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

**BBA DEGREE EXAMINATION DECEMBER 2023
(Fourth Semester)**

Branch – **BUSINESS ADMINISTRATION (INFORMATION SYSTEMS)**

RELATIONAL DATABASE MANAGEMENT SYSTEMS

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

- 1 Which is an example of a database model?

(i) Microsoft word	(ii) Relational model
(iii) Operating system	(iv) Web browser
- 2 SQL function is used to find the total number of rows in a table?

(i) COUNT	(ii) SUM
(iii) AVG	(iv) MAX
- 3 Which database object is used to provide an alternate name for a table or view?

(i) Synonym	(ii) Sequence
(iii) View	(iv) Index
- 4 Which data types are commonly used in PL / SQL for variable declaration?

(i) VARCHAR2 , NUMBER, DATE	(ii) Object , Array , Set
(iii) XML, JSON, Text	(iv) Inheritance, Polymorphism, Encapsulation
- 5 What is the primary purpose of an “OUT” parameter in a stored procedure?

(i) To execute a transaction	(ii) To control access to data
(iii) To return a value to the calling program	(iv) To encapsulate code

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 a Define the structure of the database, including tables, constraints, and indexes?
OR
b Discuss the primary purpose of Data Control Language (DCL) in SQL?
- 7 a What is the purpose of the SQL DISTINCT keyword in a SELECT statement?
OR
b How SQL set operator combines the result sets of two SELECT statements, including duplicate rows?
- 8 a What is the purpose of a domain constraint in a database?
OR
b Write the purpose of an outer join and give a scenario where an outer join is more appropriate than an inner join.

Cont...

- 9 a Define a PL / SQL block and discuss its structure.
OR
b Explain the various data types available in PL/ SQL and their appropriate usage.
- 10 a Describe how these subprograms can be grouped and organized using packages.
OR
b Discuss the different types of triggers with example.

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

- 11 a Explain the concepts of entities and attributes in a database.
OR
b Detail the common data types in Oracle, including VARCHAR2 , NUMBER, DATE , and more.
- 12 a Explain the role and use of aggregate functions in SQL, such as SUM , AVG, COUNT, MAX and MIN.
OR
b Demonstrate how to combine the result sets of two SELECT statements using the UNION operator.
- 13 a Explain how referential constraints, also known as foreign keys, are implemented in a relational database.
OR
b Discuss the role of subqueries in SQL and provide an example of a situation where a subquery is necessary.
- 14 a Explain the concept of an Object – Oriented Relational Database Management System (OORDBMS).
OR
b Explain the various data types available in PL/ SQL and their appropriate usage.
- 15 a Discuss the role of stored procedures, their use of parameters (IN , OUT , IN – OUT)
OR
b Explore the concept of “ INSTEAD OF ” triggers and explain when they are commonly used.

Z-Z-Z

END