## PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

## **BSc DEGREE EXAMINATION DECEMBER 2022**

(Fifth Semester)

## Branch – MATHEMATICS WITH COMPUTER APPLICATIONS <u>DATABASE MANAGEMENT SYSTEMS</u>

ıme	: I hree Hours	Maximum: 75 Marks
	SECTION-A (10 Marks)	
٠	Answer ALL questions ALL questions carry EQUAL marks	$(10 \times 1 = 10)$
1	and the contract of the contra	(10 x 1 10)
1.	A Relational Database consist of a collection of  (i) Table  (ii) Field  (iii) Record	(iv) Keys.
2.	A in a table represents a relationship amo	ong a set of values. (iv)Entry
3.	Which language can user request information from a Dat (i) Query (ii) Relational (iii) Structural	abase? (iv) Compiler
.: <b>4.</b>	OLAP stands for	zing processing egate processing
5.	The Most commonly used operation in relational algebra (i) Storage cell (ii) buffer cell (iii) garbage cel	isl (iv) Register Cell
6.	Which are joint types on join condition  (i) Cross join  (ii) Nature join  (iii) Join with USING clause  (iv) All the Abo	ve
7.	of the following makes the transaction permane (i) View (ii) Commit (iii) Rollback	nt in the Database (iv) Flashback
8.	is used to remove the privileges from  (i) Remove update on department from userX  (ii) Revoke update on employee from userX  (iii) Delete select on department from userX  (iv) Grand update on employee from userX	n the user X
9.	The Components of a ER Model has	o (iv) All the Above
	Which of the following symbols represent entity sets in a (i) Divided rectangles (ii) Diamonds (iii) Lines (iv) Undivided rectangles	
	SECTION - B (25 Marks) Answer ALL questions ALL questions carry EQUAL Marks	$(5 \times 5 = 25)$
11.	a) What do you mean by view of Data in SQL.	(3 A 3 23)
	b) What are the Deta Manipulated Learness 2	
	b) What are the Data – Manipulated Language?	
12.	a) Listout the Basic Types in SQL Standards.	
	(OR)	
	b) Explain about the Basic Structure of SQL Queries.	

13. a). Discuss about the Aggregation with Grouping in SQL.

(OR)

- b) Describe the concept of Scalar Sub queries.
- 14. a) Write short notes on the Design Phase.

(OR)

- b) Explain about the Large Object Types in SQL.
- 15. a) Write about the representation of Relationship Set with Suitable Examples.

(OR)

b) What is Design Phase in SQL?

## SECTION - C (40 marks)

Answer ALL Questions

All Questions carry **EQUAL** Marks (5 X 8 = 40 marks)

16. a) Discuss about the Data – Definition Language in detail.

(OR)

- b) Write about Database Architecture in Detail.
- 17. a) Explain the Natural Join in Basic Structure in SQL.

(OR)

- b) Elaborate about the Null Values in SQL with Sample Queries.
- 18. a) Discuss about the Join Expressions and its Conditionals in detail.

(OR)

- b) Elaborate about the Integrity Constraints and Relations in SQL.
- 19. a) Explain about the Roles and revoking of Privileges in SQL.

(OR)

- b) Elaborate about the Embedded SQL.
- 20. a) Briefly explain about the Entity Set in E- R Model.

(OR)

b) Explain the concept of Mapping Coordinates in Constraints.

Z-Z-Z

**END**