# LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

**B.Sc.** DEGREE EXAMINATION – **COMPUTER SCIENCE**

THIRD SEMESTER – **NOVEMBER 2022**

**UCS 3501 – RELATIONAL DATABASE MANAGEMENT SYSTEMS**

Date: 24-11-2022          Dept. No.          Max. : 100 Marks
Time: 09:00 AM - 12:00 NOON

## PART – A                                              (10 x 2 = 20 Marks)

**Q. No**                    **Answer ALL the Questions**

1   Define RDBMS.

2   What is Normalization?

3   List the SQL statement of oracle.

4   Define sorting of data.

5   What is the use of Distinct clause in SQL?

6   Define views.

7   List the data types of PL/SQL.

8   Give the types of built-in exceptions of PL/SQL.

9   Differentiate Procedure and functions

10   What are formal and actual parameters?

## PART – B                                              (5 x 8 = 40 Marks)

### Answer ALL the Questions

11   (a)  Explain the components of Database Management System diagram.

(Or)

(b) Write about Relational Database Model and its integrity rules.

12   (a) Illustrate the Data Definition Language statements with examples.

(Or)

(b) Describe the creation and implementation of constraints in tables.

13   (a) Elucidate on the character functions of Oracle.

(Or)

(b) Write note on sub queries with example.

14   (a)  Discuss about the fundamentals of PL/SQL blocks.

(Or)

(b) Illustrate PL/SQL cursors.

15   (a)  Write note about the function declaration and implementation in PL/SQL.

(Or)

(b) Explain the creation and usage of Triggers in PL/SQL.

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**PART – C**         **(2 x 20 = 40 Marks)**

**Answer any TWO Questions**

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16   (a)  Elaborate on various Normal forms with examples.        (10)

      (b) Explain various Data Manipulation Operations with example for each   (10)
           statement.

17   (a)  Discuss about Join operations on tables with examples.        (10)

      (b)  Write in detail about conditional statements of PL/SQL.        (10)

18   (a)  Discuss about the Composite Data types of PL/SQL.        (10)

      (b)  Describe the Exception handling process in PL/SQL.        (10)

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