



# LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

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

**THIRD SEMESTER – NOVEMBER 2023**

**UCS 3501 – RELATIONAL DATABASE MANAGEMENT SYSTEMS**

Date: 31-10-2023

Dept. No.

Max. : 100 Marks

Time: 09:00 AM - 12:00 NOON

## PART – A

**Q. No Answer ALL questions**

**(10 x 2 = 20 Marks)**

- 1 Define Database Management System.
- 2 What is functional Dependency?
- 3 Define attributes.
- 4 List out the commands used in TCL.
- 5 Write the purpose of CONCAT function.
- 6 State the syntax for Case statement in SQL.
- 7 What do you mean by Cursor?
- 8 What are Views?
- 9 Define Varray in PL/SQL.
- 10 What is Exception handling?

## PART – B

**Answer ALL questions**

**(5 x 8 = 40 Marks)**

- 11 a) Explain the elements of relational database model.  
(OR)  
b) Mention the characteristics and advantages of database management system
- 12 a) Explain the DDL commands in SQL with example.  
(OR)  
b) Write notes on Character Built-in functions of SQL.
- 13 a) Explain different types of Grouping the data in SQL.  
(OR)  
b) Discuss about the various Set operations used in SQL.
- 14 a) Explain the usage of anchored declaration with an example.  
(OR)  
b) Give notes on subqueries with example.
- 15 a) Discuss the creating and calling of functions in PL/SQL.  
(OR)  
b) Write notes on Triggers.

**PART – C**

**Answer any TWO questions**

**(2 x 20 = 40 Marks)**

- 16      a) Describe the DML commands in SQL with example.  
          b) Explain creation and managing of constraints with example.
- 17      a) Write the various types of JOIN operations with suitable examples.  
          b) Illustrate Creating of indexes with suitable example.
- 18      a) Briefly explain the different data types used in SQL.  
          b) Explain the creation and the usage of Package within PL/SQL with suitable example.

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