LOYOLA COLLEGE (AUTONOMOUS), CHENNAI - 600 034

B.C.A.,B.Sc. DEGREE EXAMINATION – COMPUTER APPLICATIONS & COMP. SCI.

THIRD SEMESTER - APRIL 2022

UCA /UCS 3501 - RELATIONAL DATABASE MANAGEMENT SYSTEMS

Date: 16-06-2022	Dept. No.	Max. : 100 Marks
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Time: 01:00-04:00

PART A

Answer the questions.

(10x2=20)

- 1. Define database.
- 2. Define entity.
- 3. What is LOB? Give an example.
- 4. List the TCL commands.
- 5. Give the syntax of CONCAT operation with an example.
- 6. Give the syntax for ALTER command to add an integrity constraint in an existing table.
- 7. Write the PL/SQL block structure.
- 8. Define cursor.
- 9. What is a trigger?
- 10. Define a package.

PART B

Answer all the questions

(5x8=40)

11a. Explain the integrity constraints with examples.

(OR)

- 11b. Explain the elements of relational database model.
- 12a. Describe the DML commands with examples.

(OR)

- 12b. Create a customer table with necessary fields and insert 5 rows of data and list the table data after ordering them in ascending and descending order using SQL commands.
- 13a. Explain the different aggregate functions with examples.

(OR)

- 13b. Discuss the various Joins with examples.
- 14a. Explain with an example the usage of anchored declaration.

(OR)

- 14b. What is Exception handling? Write a user defined exception to handle when salary is less than 1000.
- 15a. Elucidate on Procedures in PL/SQL

(OR)

15b. Explain in detail about functions in PL/SQL.

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PART C

Answer any two questions

(2x20=40)

16a. Describe the components of ER diagram.

Draw an ER diagram for the following schema

Student(Rollno, Name, Date_of_birth, Mobile_no, Bloodgroup)

Faculty(Fac_ID, Name, mail_id, contact_manager)

Subject(Subjcode, title, credits, passing_min)

Allotment(Staff_ID, Subject_code, Roll_no)

- 16b. Briefly explain the different data types used in SQL.
- 17a. Explain number functions, character functions and date functions.
- 17b. Explain in detail about the control structures in PL/SQL.
- 18a. Explain nested blocks with examples.
- 18b. Explain 1NF, 2NF, 3NF and Boyce-codd normal forms with examples.

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