



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – COMPUTER SCIENCE

FOURTH SEMESTER – APRIL 2017

CS 4504- RDBMS AND ORACLE

Date: 21-04-2017
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

Part A

Answer ALL the Questions

(10 * 2 = 20)

1. Give the three aspects of Relational Model.
2. Give the types of Integrity constraints.
3. State the ACID Properties.
4. What are the three concurrency problems?
5. Define Views. Give its purpose.
6. Give the syntax of Case in SQL.
7. Expand PL/SQL.
8. What is cluster?
9. How triggers are enabled and disabled?
10. What is a Stored Procedure?

Part B

Answer ALL the Questions

(5 * 8 = 40)

11. Explain ER Diagram with example of data storage in an Academic institution.
(or)
Define Key. Explain its types with example.
12. Define Functional Dependency. Give the set of Inference rules.
(or)
Write short notes on Two Phase Commit.
13. Discuss about the Syntax and uses of DML Commands.
(or)
Solve the following queries. Hotel(Cus_id, cus_name, checkin_date, checkout_date, type of room, rate)
(i) Find the customer who is in AC room and whose name starts with 'DA' and ends with 'L'.
(ii) List all the customers entered hostel in a particular date
(iii) List all customers who stayed more than 5 days.
14. Write short notes on Synonyms and Sequences.
(or)
Write a PL/SQL block to explain user defined exceptions.
15. What is a Trigger? Give its uses and Syntax. Discuss about its types.
(or)
Define Packages. Explain on package overloading with example.

Part C

Answer Any TWO Questions

(2 * 20 = 40)

16. (a) Define Database. Explain the three levels of Database architecture.
(b) What is Normalization? Describe 1NF, 2NF and 3NF.
17. (a) Write any five character functions with syntax and example.
(b) Explain Explicit cursors and Implicit cursors with examples .
18. (a) Differentiate stored functions and stored procedures with examples.
(b) Define Locking. Explain how it works. Also explain how deadlocks are avoided.
