2021
B.A./B.Sc. (General) Fifth Semester
Computer Applications
CA-10: Database Management Using Oracle

Time allowed: 3 Hours   Max. Marks: 30

NOTE: *Attempt five questions in all, including Question No. IX (Unit-V) which is compulsory and selecting one question each from Unit I - IV.*

x-x-x

UNIT – I

I.   Discuss the architecture of database specifying the role of each layer.   (6)

II. What is the significance of normalization? Explain the concept of 1NF, 2NF and 3NF with suitable example.   (6)

UNIT – II

III. Create a table student with attributes RNo, Name, Class, Marks, Phone, address and populate it with minimum 5 records. Write SQL query to List the students with Marks greater than 50 % and less than 60% from a specified class B.Sc.   (6)

IV. Write a note on:-

a) Query aggregate function

b) Creation and deletion of views   (2x3)

UNIT – III

V.   Explain the following:-

a) Commit and Rollback

b) Arithmetic functions   (2x3)

VI. Discuss querying multiple tables using Equi Join, Cartesian Join and Self Join with example.   (6)

UNIT – IV

VII. Describe the architecture of PL/SQl along with its block structure in detail.   (6)

VIII. Explain in detail the conditional and iterative control available in SQL with suitable examples.   (6)

UNIT – V

IX. Attempt the following:-

   a) What is the role of foreign key?

   b) Define NULL Value.

   c) What is Union operator?

   d) List major data types in PL/SQL.

   e) Distinguish between implicit and explicit cursor attributes.

   f) Define predefined exceptions.   (6x1)

x-x-x