

B.Sc.(IT) Semester - 3 (CBCS) Examination
Oct/Nov - 2023 (OLD COURSE)
CS-15 RDBMS USING ORACLE(CORE)

Time: 2:30 Hours**Marks: 70****Instructions:**

1. All questions are compulsory.
 2. Figures to the right indicate marks.
-

- Q-1 **A) Attempt the following** (04)
- 1) Give full form : DDL
 - 2) _____ Keyword is used to search specified pattern in a column.
 - 3) Give full form : SQL
 - 4) What is SQL *PLUS?
- B) Attempt any one:** (02)
- 1) What are SQL Commands? Explain giving example
 - 2) Write main features of an RDBMS
- C) Attempt any one:** (03)
- 1) List and shortly explain various SQL Datatypes.
 - 2) What is E-R Diagram? Explain with example
- D) Attempt any one:** (05)
- 1) List and explain Dr. E. F. Codd's rules
 - 2) Write main differences between SQL and SQL *PLUS
- Q-2 **A) Attempt the following** (04)
- 1) What is the main use of 'GROUP BY'?
 - 2) _____ Statement is used to delete the data inside a table, but not the table itself
 - 3) _____ function works as an if-then-else statement
 - 4) What is a subquery?
- B) Attempt any one:** (02)
- 1) List various Data Manipulation commands. Explain any one
 - 2) Write the use of SELECT statement with CUBE giving example
- C) Attempt any one:** (03)
- 1) What is join? Explain types of joins
 - 2) List various Aggregate functions. Explain any one giving example
- D) Attempt any one:** (05)
- 1) What is Transaction? Explain giving example
 - 2) Explain in detail : database constraints
- Q-3 **A) Attempt the following** (04)
- 1) Define Deadlock
 - 2) What is Latch?
 - 3) What is sequence?
 - 4) What is the use of Database Links?
- B) Attempt any one:** (02)
- 1) Write in brief about View
 - 2) Explain giving example : Synonyms.

- C) Attempt any one:** (03)
- 1) Explain various locking issues
 - 2) Explain in detail : Cluster
- D) Attempt any one:** (05)
- 1) List and explain various types of Index
 - 2) What are Locks? Explain various types of locks
- Q-4 **A) Attempt the following** (04)
- 1) Give full form PL/SQL
 - 2) What is a package?
 - 3) What is trigger?
 - 4) What is exception?
- B) Attempt any one:** (02)
- 1) What is a cursor? list its types
 - 2) What is the use of %type in PL/SQL? Explain with example.
- C) Attempt any one:** (03)
- 1) Differentiate between SQL and PL/SQL
 - 2) Write a PL/SQL code block to decide whether the entered number is even or odd
- D) Attempt any one:** (05)
- 1) What is PL/SQL? Explain a PL/SQL block structure
 - 2) Write a procedure to create following parameters and insert records into STUD Table using those parameters:
 - a. Student name
 - b. email
 - c. Contact info(phone number)
 - d. Gender(MALE/FEMALE)
- Q-5 **A) Attempt the following** (04)
- 1) _____ command is used to immediately shutdown the ORACLE database
 - 2) What is the main purpose of Redo Log files?
 - 3) A datafile can be associated with only one database : true/false
 - 4) What is ORACLE resource?
- B) Attempt any one:** (02)
- 1) Write and explain the command for Opening a database file named Stud.
 - 2) What is ORACLE Scheduler? What is its main use?
- C) Attempt any one:** (03)
- 1) What is SQL *LOADER? Note its main uses.
 - 2) Describe : Rollback segment
- D) Attempt any one:** (05)
- 1) Explain in detail : Instance Architecture
 - 2) What is tablespace? Explain with examples the commands required to create and remove the tablespace from database.
