Q. P. Code: 33488

(2 ½ Hours) [Total Marks:75]

N.B: (1) All questions are compulsory.
    (2) Figures to the right indicate marks.
    (3) Illustrations, in-depth answers and diagrams will be appreciated.
    (4) Mixing of sub-questions is not allowed.

Q1. **Attempt the following (any THREE):** (15)
  (A) Briefly explain features of PL/SQL.
  (B) Explain PL/SQL block structure with one example.
  (C) What is variable scope in PL/SQL?
  (D) Briefly explain the term %type attribute with example.
  (E) Write a short note on bind variables used in PLSQL.
  (F) Write briefly about Sequences in PLSQL expressions.

Q2. **Attempt the following (any THREE):** (15)
  (A) Describe TO_CHAR, TO_NUMBER; TO_DATE conversion functions used IN PL/SQL.
  (B) Explain the CASE expression used in PL/SQL with example.
  (C) Write a PLSQL block to accept total marks and obtained marks print 'successful' if student passes. Assume passing above 35%
  (D) Explain Jump and exit statements in PLSQL with example.
  (E) Briefly explain the concept of associative arrays.
  (F) Write a PLSQL block to generate 10 odd numbers using for loop.

Q3. **Attempt the following (any THREE):** (15)
  (A) Briefly explain general syntax for exception handling.
  (B) Write short note on RAISE_APPLICATION_ERROR procedure.
  (C) What are benefits of stored procedures?
  (D) Briefly explain syntax of simple procedure.
  (E) Write PL/SQL function that computes and returns maximum of two values.
  (F) Write short note on save and discard transaction.

Q4. **Attempt the following (any THREE):** (15)
  (A) Briefly explain attributes of Implicit cursor.
  (B) Briefly explain life cycle of Explicit cursor
  (C) Write a program to update customer table, increase salary of each customer by 500 and determine the number of rows affected.
  (D) Briefly explain the term Nested tables.
  (E) Briefly explain Date and Time function used in PL/SQL.
  (F) Write short note on FOR UPDATE clause and WHERE CURRENT clause.

Q5. **Attempt the following (any THREE):** (15)
  (A) Explain concept of NULL values in PL/SQL.
  (B) Write short notes on: a) FOR loops   b) WHILE loops
  (C) Differentiate between System defined exceptions and User defined exceptions.
  (D) Write a short note on Varray.
  (E) Write a PLSQL block to print series of odd number till given number.
  (F) Briefly explain cursor FOR loop.