

[Time: 2:30 Hours]

Please check whether you have got the right question paper.

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.

(15)

Q.1 Attempt the following (any THREE):

A) What are features of PL/SQL?
 B) Write short note on sequences.
 C) Explain concept of %type attribute and bind variable in PL/SQL.
 D) Briefly explain PL/SQL block structure.
 E) Explain different comparison and logical operators used in PL/SQL.
 F) Write PL/SQL block to generate odd numbers within given range.

(15)

Q.2 Attempt the following (any THREE):

A) Briefly explain any five PL/SQL data types.
 B) Explain To_CHAR, TO_NUMBER and TO_DATE conversion functions in PL/SQL.
 C) Write short note on: i) FOR Loop ii) While Loop in PL/SQL.
 D) Explain %ROWTYPE attribute with any one example.
 E) Explain jump and exit statements in PL/SQL with example.
 F) Write PL/SQL blocks to accept total marks and obtained marks and print grade A, B, C, D and F depending on obtained marks using selector case expression.

(15)

Q.3 Attempt the following (any THREE):

A) Define term Exception Handling in PL/SQL with its two types.
 B) Explain simple procedure with its syntax and one example.
 C) What is function in PL/SQL? Write simple function to calculate square of given number with help of function parameters.
 D) Write simple function to count total number of customers from Table Customer.
 E) Explain any five user defined exceptions with its error code.
 F) Briefly explain concept of RAISE exception with any one example.

(15)

Q.4 Attempt the following (any THREE):

A) Briefly explain term Cursor with its types.
 B) Define implicit cursor attributes: %FOUND, %NOTFOUND, %ROWCOUNT, and %ISOPEN.
 C) Write PL/SQL block to update table Employee by increase in salary by 5000 and by using concept of cursor find total number of rows updated.
 D) Define Cursor FOR LOOP with any one example.
 E) Explain in short term Collection in PL/SQL with its type.
 F) Briefly explain concept of Nested table with its syntax.

Q.5 Attempt the following (any THREE): (15)

- A) Explain concept of NULL values in PL/SQL.
- B) Explain concept of Index By Table method in PL/SQL.
- C) Create simple procedure to find minimum number from two numbers using IN and OUT parameters.
- D) Briefly explain Explicit cursor with its working steps.
- E) Write PL/SQL block to determine the salary increment of given employee based on the hire date of the employee.
- F) Explain Commit, Rollback and Savepoint in PL/SQL transaction.
