(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.

*** Consider table emp with structure specified as follows:

(eno number(4) ,name varchar(20),dept varchar(10),desig varchar(10) ,sal number(6))

For questions referring emp table.

Q1. Attempt the following (any THREE):

(15)

- (A) Explain the concept of PL/SQL identifiers & declare section.
- (B) Explain anonymous block with example.
- (C) Discuss various scalar data types in PL/SQL with example.
- (D) Write note on Sequence.
- (E) With nested block explain scope of variables.
- (F) Write a PL/SQL code to read radius of circle. Print area & circumference of circle.

Q2. Attempt the following (any THREE):

(15)

- (A) Explain data conversion functions with example.
- (B) Write note on CASE statement.
- (C) Write a PL/SQL block to display total salary paid and total employees of specified department.
- (D) With syntax explain how to create Varray. How to use it.
- (E) Write a program to print all odd numbers divisible by 5 greater than 10 but less than 100.
- (F) Write a PL/SQL code to add new employee in emp table mentioned above. Salary will be set afterwards. Make this change permanent after taking confirmation from user otherwise discard the changes.

Q3. Attempt the following (any THREE):

(15)

- (A) How PL/SQL works with user defined exceptions?
- (B) Explain the types of parameters used in stored procedure with example.
- (C) What is cursor? Explain its use.
- (D) Define function to increase salary of specified employee, by checking designation as follows: 1000 for officer, 2000 for Manager & for others 500 Rs. Test this function.
- (E) Write a PL/SQL code to display total salary paid to employees of specified designation, provide proper exception handling for vaid designation.
- (F) How to save & discard transactions?

56142 Page 1 of 2

Q4. Attempt the following (any THREE): (15)

- (A) Discuss types of cursors, with example.
- (B) Explain the steps required to handle cursor.
- (C) What is the use of 'where Current' clause? Explain with example.
- (D) Write a PL/SQL code to display employee details department wise with names in alphabetic order.
- (E) Write a note on 'Index by table'.
- (F) Explain 'cursor for loop' with its advantages.

Q5. Attempt the following (any THREE): (15)

- (A) Explain the use of %Type & % Rowtype attribute with example.
- (B) State the types of loop construct in PL/SQL. Explain any one with example.
- (C) Explain any 3 predefine exceptions in PL/SQL
- (D) Discuss explicit cursor attributes.
- (E) Write a PL/SQL code to display employee names from employee table using nested table.
- (F) Write a PL/SQL code to read users complete name, then display as follows: i.e if name is RAM

RAM

RA

R

56142 Page 2 of 2