

Note: i) All questions are compulsory.

ii) Figures to the right indicate full marks.

iii) Give query example wherever necessary.

Q.1 Attempt any Two.

[10]

a) What are views? Explain the difference between a view and a table.

b) Write a short note on-

i) GROUP BY clause

ii) Left Join

c) What do you mean by sequence? Explain the keywords and parameters used in it.

d) Consider following tables-

Book(bookid,author,publisher,category,price)

Distributor(distid,bookid,dname,city)

Orders(orderno,bookid,distid,qty)

Solve following queries –

i) Display the details of book whose order is placed having the author

'Murach'.

ii) Find out maximum of ordered quantity by each distributor.

iii) Create table Book with bookid as primary key.

Q.2 Attempt any Two.

[10]

a) Write a short note on hierarchical retrieval.

b) Explain WITH clause with suitable example.

c) Write a short note on-

i) UNION clause

ii) INTERSECT clause

iii) MINUS clause

d) Explain all date-time functions used in oracle.

Q.3 Attempt any Two.

[10]

a) Write a short note on Substitution variable. Explain with proper example.

b) What do you mean by anonymous PL/SQL block? Explain with example.

c) Explain the role of commit and rollback with respect to transaction. Also explain the concept of savepoint in it.

d) Consider a table Patient(pno, pname, illness_type). Write a PL/SQL block to display the details of patients who are suffering from 'Malaria'.

Q.4 Attempt any Two.

[10]

a) What do you mean by parameterized cursor? How to declare it and use it?

b) What are the steps involved in explicit cursor management?

c) What is a cursor? What are the attributes used in Implicit cursor?

d) Consider a table Employee(empno, fname, lname). Write parameterized cursor to accept employee number and print its first name and last name.

Q.5 Attempt any Two.**[10]**

- a) What do you mean by procedure? What are the different keywords and parameters used for creating database function?
- b) What do you mean by package? What are the advantages of using package?
- c) Explain the advantages of using functions.
- d) Consider a table Student(rollno, sname, city). Create a function to return the name of student for a given rollno.

Q.6 Attempt any Two.**[10]**

- a) What do you mean by Trigger? Explain the syntax of creating trigger with all keywords and parameters.
- b) Write a short note on Instead of trigger for a view.
- c) Explain all types of Trigger.
- d) Consider a table Employee(empno,ename,city). Create a trigger that displays a message 'Inserted Successfully' after inserting a row in the Employee table.

Q.7 Attempt any Three.**[15]**

- a) Explain ALTER TABLE command with syntax and proper example.
- b) Write short note on hierarchical retrieval.
- c) What are the advantages of PL/SQL?
- d) Explain the use of EXIT and EXIT WHEN in PL/SQL block.
- e) What are the ways to call a function in PL/SQL?
- f) Explain following steps to execute dynamic SQL with DBMS_SQL package-
 - i) Open a cursor
 - ii) Parse SQL statement
 - iii) Execute the SQL statement.

— The End —