



RAN-2511001105020001

B.Sc. (IT) (Sem. - V) Examination November - 2025

Advance RDBMS - Major - II (Paper - 502)

[Total Marks: 50

સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book

Seat No.:

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Student's Signature

Q. 1 [A] Define the following terms [Any Five]

05

1. What is a parameter mode in the Stored Procedure of Oracle PL/SQL?
2. What is the Program Global Area (PGA)?
3. What is use of Redo Log Buffer?
4. Define an extent with reference to database storage.
5. Define Cursor.
6. What is 'RAISE_APPLICATION_ERROR' used for?

Q. 1 [B] Answer following questions in short [Any Five]

05

1. Explain the use of Control Files in Oracle.
2. What is CURRVAL and NEXTVAL in sequences?
3. What does '%ROWCOUNT' return?
4. Difference between Simple Index and Composite Index.
5. What is a Record in PL/SQL?
6. Define Commit with an example.

Q. 2 [A] Answer the following questions in detail [Any Two]

10

1. Explain Oracle Logical Architecture.
2. Write a PL/SQL program demonstrating Explicit Cursor and Cursor FOR Loop.
3. Explain Packages and Scope, including examples of Package Objects.

Q. 2 [B] Answer the following questions in brief [Any Two]

06

1. Explain different Types of Database Triggers with examples.
2. Write a short note on Exception Handling.
3. Discuss Sequences and Pseudo Columns with suitable example.

- Q. 3 [A] Answer the following questions [Any Two] 10**
- Consider the following tables:
 STUDENT (STUDENT_ID, STUDENT_NAME, COURSE_ID, MARKS)
 COURSE (COURSE_ID, COURSE_NAME, DURATION)
1. Create a stored procedure PROC_ADD_STUDENT to insert a new student record into the 'STUDENT' table.
 - * The procedure should accept student details as parameters.
 - * Validate that the provided 'COURSE_ID' exists in the 'COURSE' table.
 - * If the course doesn't exist, return a message "Invalid Course ID" and do not insert the record.
 2. Create a stored procedure PROC_UPDATE_MARK to update the marks of a student.
 - * The procedure should accept 'STUDENT_ID' and new 'MARKS' as input
 - * If the students exists, update the record; otherwise, print "Student Not Found" using 'DBMS_OUTPUT.PUT_LINE'.
 3. Write a stored procedure PROC_GET_COURSE_STUDENT that accepts a 'COURSE_ID' and displays the list of all students enrolled in that course using 'DBMS_OUTPUT.PUT_LINE'.
 - * If no students are found, return "No Students Enrolled".
- Q. 3 [B] Answer the following questions in brief [Any Two] 06**
1. Write a short note on Function-Based Index.
 2. Explain VARRAY and its advantages over Nested Table.
 3. Difference between Procedures and Functions in PL/SQL.
- Q.4 [A] Write a PL/SQL block to demonstrate the use of Parameters in Procedures and Functions 05**
- OR**
- Q. 4 [A] Explain Package Body and its components with example. 05**
- Q. 4 [B] Discuss Types and Levels of Locks in Oracle with examples. 03**
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