

END SEMESTER EXAMINATIONS, MAY 2017

M.Tech (2nd Semester)

Course Title: Oracle database development

Course No: PGMTH1FO012T

Time: Two Hours

Total Marks: 50

SECTION A

Section A contains *eight multiple choice questions* and all are compulsory carrying 1.5 marks each.

1. Right tick the correct answer for each of the following multiple choice questions

I. Which area is a location in which Oracle Database can store and manage files related to backup and recovery?

- (A) Flash Recovery Area.
- (B) Managing the System Global Area (SGA)
- (C) Both A & B
- (D) None of the above

II. Consider the join of a relation R with relation S. If R has m tuples and S has n tuples, then the maximum size of join is:

- (A) mn
- (B) m+n
- (C) (m+n)/2
- (D) 2(m+n)

III. Which one of the following is not true for a view:

- (A) View is derived from other tables.
- (B) View is a virtual table.
- (C) A view definition is permanently stored as part of the database.
- (D) View never contains derived columns.

IV Which of the following is a legal expression in SQL?

- (A) SELECT NULL FROM EMPLOYEE;
- (B) SELECT NAME FROM EMPLOYEE;
- (C) SELECT NAME FROM EMPLOYEE WHERE SALARY = NULL;
- (D) None of the above

V. To delete a particular column in a relation the command used is:

- (A) UPDATE
- (B) DROP
- (C) ALTER
- (D) DELETE

VI. Which of the following returns the current value in a specified sequence?

- (A) CURRVAL
- (B) NEXTVAL
- (C) Both A & B
- (D) None of the above

VII. Oracle database's design is also called as _____?

- (A) Database Abstraction
- (B) Database Instance
- (C) Database Schema
- (D) None of the Mentioned

VIII. Which of the following executes the query and identifies the result set, consisting of all rows that meet the query search criteria?

- (A) Fetching with a Cursor
- (B) Opening a cursor
- (C) Fetching bulk data with a cursor
- (D) None of the above

SECTION B

Section B contains six short answer questions of six marks each. Three questions are to be attempted selecting at least one from each unit.

UNIT-I

2. What is a database schema? What are the properties of relational database systems?

or

What is database object in oracle? List all the database objects.

UNIT-II

3. Discuss the concept of Keys. How primary key is different from unique key?

or

What is a Join operation? Differentiate between inner and outer join operations.

UNIT-III

4. What is an Index? How index are useful for database performance?

or

What are updatable views? Using suitable examples explain the concept of views in oracle.

SECTION C

Section C contains three long answer questions with ten marks each out of which any two are to be attempted.

5. Why database design is important for any MIS based application? Using a diagram explain the architecture of an Oracle DBMS.

6. What are different types of integrity constraints used in a database design? Explain each one by using suitable examples.

7. What is trigger? Write a before and after trigger on a table of your choice for keeping audit trail of the database.