



HCW-003-1033003 Seat No. _____

B. C. A. (Sem. III) (CBCS) Examination

October / November - 2017

**CS - 15 : RDBMS using Oracle
(New Course)**

Faculty Code : 003

Subject Code : 1033003

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

1 Answer the following questions :

(A) Attempt the following objective questions : 4

(1) In an E-R Diagram entity represented by _____.

(2) Which technique is used to decompose data into two dimensional tables ?

(3) To communicate with oracle, SQL supports different languages.

(4) Long Raw data type can hold _____ data.

(B) Attempt any one : 2

(1) Write a note on E-R Model.

(2) Differentiate: DBMS v/s RDBMS.

(C) Attempt any one : 3

(1) Write a note on SQL components.

(2) Explain E-F Codd rules in detail.

(D) Attempt any one : 5

(1) Write a note on operators.

(2) Explain different data types available in SQL.

2 Attempt the following questions :

(A) Attempt the following : 4

(1) Which keyword is used to display uniquely data from any specific column ?

- (2) Maintaining security and also integrity on any database, then _____ are used.
- (3) Which constraints is used to establish parent-child relation between two or more tables ?
- (4) _____ is used to group rows based on distinct values for specified column.

(B) Attempt any one : 2

- (1) What is the use of set operator ? Explain.
- (2) Write a note on group by and having clause.

(C) Attempt any one : 3

- (1) Explain the functions :
 (a) to_char() (b) substr() (c) add_months()
- (2) What are constraints ? Explain.

(D) Attempt any one : 5

- (1) Consider these following tables and only solve the query.

Tables :

- 1) student : s_no (primary key),
 student_name, course_no (foreign key), age
- 2) course:-course-no (primary key), course-name

Query :

- Display all the student name, course name and also age of the students, whose age is between 23 to 27 and course having 'BCA'.
- Find out the students whose age is maximum.

- (2) Write a note on joins.

3 Attempt the following questions :

(A) Attempt the following:- 4

- (1) Which lock is a default locking mechanism in oracle ?
- (2) _____ index is an entry points to a single row.
- (3) Which object is specially created for the data security ?
- (4) _____ can generate numeric values.

- (B) Attempt any one : 2
- (1) Define the term: cluster, snapshot.
 - (2) What is synonym ? Explain.
- (C) Attempt any one : 3
- (1) What is view ? Explain with suitable example.
 - (2) What is the use of sequence ? Explain.
- (D) Attempt any one : 5
- (1) What is an index ? Explain in detail.
 - (2) What is lock ? Explain its various types in detail.
- 4 Attempt the following questions :
- (A) Attempt the following : 4
- (1) Package is one type of stored programs. (true/false)
 - (2) Which trigger executes any action after the triggering statement is executed?
 - (3) _____ cursor is used into update/delete any record from any table.
 - (4) Which data type is also called a user defined data type ?
- (B) Attempt any one : 2
- (1) Differentiate: %type v/s %rowtype.
 - (2) Differentiate: procedure v/s function.
- (C) Attempt any one : 3
- (1) Explain PL/SQL block structure in detail.
 - (2) Why we use cursor ? Explain its various types.
- (D) Attempt any one : 5
- (1) What is the use of exception ? Explain with suitable example.
 - (2) Consider a customer table having fields id, name, age, address and salary. Create a trigger on this table for insert, update or delete any records and also display the salary difference between the old salary and new salary.

- 5** Attempt the following questions :
- (A) Attempt the following : **4**
- (1) DBWR stands for _____.
 - (2) Data elements in the database can be modified by using data dictionary. (True/False)
 - (3) _____ files hold the actual data.
 - (4) Principal scheduler object is the _____.
- (B) Attempt any one : **2**
- (1) Define the term: tablespace, segments,
 - (2) Write a note on memory structure.
- (C) Attempt any one : **3**
- (1) Write a note on instance architecture.
 - (2) What is initialization parameter ? Explain.
- (D) Attempt any one : **5**
- (1) What is oracle scheduler ? Explain.
 - (2) What is background processes ? Explain.
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