

DCV-003-1033003]

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Seat No. _____

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B. C. A. (Sem. III) (WEF-2016) Examination August - 2022

CS-15: RDBMS Using Oracle

Faculty Code: 003

Subject Code: 1033003

| Time | e : 2 | $\frac{1}{2}$ Hours] [Total Marks: | 70 |
|------|----------------------|--|----|
| 1 | Ans ^x (A) | wer the following questions: Attempt the following objective questions: (1) operator is also known as pattern matching operator. (2) SQL stands for (3) Which technique is used to decompose data into two dimensional tables? (4) DCL stands for | 4 |
| | (B) | Attempt the following: | 2 |
| | (-) | (1) Differentiate: E-R Diagram. | |
| | (C) | Attempt the following: | 3 |
| | | (1) Write a note on E-F Codd rules. | |
| | (D) | Attempt the following: | 5 |
| | | (1) Write a note on operators. | |
| 2 | Ans | wer the following questions: | |
| | (A) | Attempt the following objective questions: | 4 |
| | | (1) SQL * plus is an environment in which user can execute SQL commands and PL/SQL blocks. (True/False) | |
| | | (2) operator is very useful when user have multiple choices. | |
| | | (3) DQL Stands for | |
| | | (4) Which operator in SQL is specially used for range searching? | |
| | (B) | Attempt the following: | 2 |
| | | (1) Explain: DBMS v/s RDBMS. | |
| | (C) | Attempt the following: | 3 |
| | _ | (1) Explain: Data types in SQL. | |
| | (D) | Attempt the following: | 5 |
| | | (1) Write a note on SQL Components. | |

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| 3 | $\operatorname{Att}\epsilon$ | empt the following questions: | |
|---|------------------------------|--|---|
| | (A) | Attempt the following: | 4 |
| | | (1) Unique constraint is used to store unique and at | |
| | | least one value. (True/False) | |
| | | (2) When we want to set some rules on table, at that | |
| | | time we used | |
| | | (3) A table joins with itself is called | |
| | | (4) command is used to modify the structure | |
| | | of any existing table. | |
| | (B) | Attempt the following: | 2 |
| | ` ' | (1) Differentiate: primary key v/s not null. | |
| | (C) | Attempt the following: | 3 |
| | • • | (1) Explain constraints in detail. | |
| | (D) | Attempt the following: | 5 |
| | ` ' | (1) Assume the table and solve the following query: | |
| | | Employee : Emp_no (primary key), | |
| | | emp_name,city,mgr_no, job, sal, d_no | |
| | | - Display the entire employee whose name | |
| | | starts with 'r' character. | |
| | | Display department wise average salary whose | |
| | | dept no is not null. | |
| | | _ | |
| 4 | Atte | empt the following questions: | |
| | (A) | Attempt the following: | 4 |
| | | (1) clause acts like a where clause but is used | |
| | | for groups rather than rows. | |
| | | (2) The condition in a where clause can refer to only | |
| | | one value. (True/False) | |
| | | (3) operators are used with sub query. | |
| | | (4) In TCL, we have,and | |
| | | commands. | |
| | (B) | Attempt the following: | 2 |
| | | (1) Explain: substr(), to_date() | |
| | (C) | Attempt the following: | 3 |
| | | (1) Write a note on Joins. | |
| | (D) | Attempt the following: | 5 |
| | | (1) Consider these following tables and only solve the | |
| | | query. | |
| | | Tables: 1) student: s_id (Primary key), sname, city | |
| | | 2) result: r _id (Primary Key), s_id (Foreign key), | |
| | | mark1, mark2, | |
| | | Query: | |
| | | Display all the students whose city is Mumbai. | |
| | | List out all the students whose mark2 between | |
| | | 65 and 80. | |
| | | | |

| 5 | Atte | mpt the following questions: | |
|-----|------|---|-----|
| | (A) | Attempt the following: | 4 |
| | | (1) What is synonym? | |
| | | (2) Which locking mechanism is the default locking | |
| | | mechanism? (3) Which database object is also known as virtual | |
| | | table? | |
| | | (4) Indexes may be created or dropped at any time. (True/False) | |
| | (B) | Attempt the following: | 2 |
| | | (1) Explain- latches. | |
| | (C) | Attempt the following: | 3 |
| | | (1) What is index? Explain. | |
| | (D) | Attempt the following: | 5 |
| | | (1) What is sequence? Explain with example. | |
| 6 | | mpt the following questions: | |
| | (A) | Attempt the following: | 4 |
| | | (1) What is lock? | |
| | | (2) Which index is also known as Balanced Tree Index? | |
| | | (3) The address field of an index is called . | |
| | | (4) Which locking mechanism is suitable for web | |
| | | applications? | _ |
| | (B) | Attempt the following: | 2 |
| | (O) | (1) Define the term: cluster, snapshots. | |
| | (C) | Attempt the following: | 3 |
| | (D) | (1) What is view? Explain. | _ |
| | (D) | Attempt the following: | 5 |
| | | (1) Differentiate: pessimistic locking v/s optimistic locking. | |
| 7 | Atte | mpt the following questions: | |
| | (A) | Attempt the following: | 4 |
| | | (1) PL/SQL stands for | |
| | | (2) Which exception is raised automatically when PL/SQL blocks violets oracle rule? | |
| | | (3) Which cursor is useful to manipulation of data in | |
| | | any table? | |
| | | (4) Which data type is also known as user defined data type? | |
| | (B) | Attempt the following: | 2 |
| | ` ′ | (1) Explain: abstract data type, varrays. | |
| | (C) | Attempt the following: | 3 |
| | | (1) Differentiate: %type v/s % rowtype, | |
| | (D) | Attempt the following: | 5 |
| | | (1) Explain Procedure with suitable example. | |
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| 8 | Atte | mpt the following questions: | |
|----|------|--|---|
| | (A) | Attempt the following: | 4 |
| | | (1) A cursor has attribute. | |
| | | (2) Which cursor is also known as user defined cursor? | |
| | | (3) Which object can hold another object within it? | |
| | | (4) PL/SQL table are similar to array in C. (True/ | |
| | | False) | |
| | (B) | Attempt the following: | 2 |
| | | (1) Differentiate: Pre-defined Exception v/s User- | |
| | | defined Exception. | |
| | (C) | Attempt the following: | 3 |
| | | (1) Write a note on various types of cursors. | |
| | (D) | Attempt the following: | 5 |
| | Ì | (1) What is trigger? Explain with suitable example. | |
| 9 | Atte | mpt the following questions: | |
| | (A) | | 4 |
| | | (1) holds the actual data. | |
| | | (2) Which files are also known as journals of the | |
| | | database? | |
| | | (3) LGWR stands for | |
| | | (4) Which object specifies when and how many times | |
| | | a job is run? | |
| | (B) | Attempt the following: | 2 |
| | ` ´ | (1) What is System Global Area? | |
| | (C) | Attempt the following: | 3 |
| | | (1) What is initialization parameter? Explain. | |
| | (D) | Attempt the following: | 5 |
| | ` / | (1) What is instance architecture? Explain. | |
| 10 | Atte | mpt the following questions: | |
| | (A) | Attempt the following: | 4 |
| | | (1) A database is divided into logical storage units | |
| | | called | |
| | | (2) A segment has types. | |
| | | (3) SMON stands for | |
| | | (4) type of schedules is available in oracle. | |
| | (B) | Attempt the following: | 2 |
| | | (1) Explain: Data files, Redo log files. | |
| | (C) | Attempt the following: | 3 |
| | | (1) What is scheduler? Explain in detail. | |
| | (D) | Attempt the following: | 5 |
| | ` ' | (1) Write a note on memory structure. | |
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