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BACHELOR OF COMPUTER APPLICATIONS (B.C.A.)
SPECIALIZATION IN CYBER SECURITY (CS)
EXAMINATION : MAY - 2024
SEMESTER - IV

Sub: Advanced Database / Advanced Database Management System
(BCA – 444-18/BCA-444-20/BCA-CS-444-20)

Date : 30/05/2024

Total Marks : 60

Time: 10.00 am To 12.30 pm

Instructions:

1. All questions are compulsory unless and otherwise stated.
2. Bold figures to the right of every question are the maximum marks for that question.
3. Candidates are advised to attempt questions in order.
4. Answers written illegibly are likely to be marked zero.
5. Use of scientific calculators, Log tables, Mollier Charts is allowed.
6. Draw neat and labeled diagrams wherever necessary.

Q.1. Fill in the blanks.

(5)

1. A subquery is also called as ----- query.
a) Second
b) Nested
c) Secondary
d) Primary
2. Functions that act on a set of values are called as ----- functions.
a) Single
b) Group
c) Row
d) Mathematical
3. For character data type the ----- sign matches any string.
a) Plus
b) Minus
c) Percent
d) And
4. The ----- attribute is used to declare variables based on definitions of columns in a table.
a) %TYPE
b) Rowid
c) Columnid
d) %Row
5. Cursors defined by the users are called ----- cursors.
a) Explicit
b) Implicit
c) User defined
d) New

Q.2. State True/False.

(5)

1. Business rules that have to be applied to data are completely system dependent.
2. Joining table to itself is called Equi join.
3. The having clause imposes a condition on the group by clause.
4. In order to select data that is within a range of values, the IN BETWEEN operator is used.
5. The default behavior of the foreign key can be changed, by using the On Delete Cascade option.

Q.3. Answer the following. (Solve any 5)

(10)

1. What is the use of Union clause ?
2. Explain To_Number(char) function.
3. List out the input/output data constraints.
4. State the syntax and example for closing a cursor.
5. Explain Group By clause.
6. State the definition of cursor.

Q. 4. Answer the following in detail. (Solve any 6) (30)

1. Explain any two loops in PL/SQL.
2. Explain Open, Fetch commands related to cursor.
3. Explain in detail logical operators.
4. Explain in detail Select command.
5. Explain in detail the syntax of 'Create Sequence' statement.
6. Explain in detail Grant statement.
7. Explain in detail To_Char() and To_Date() functions.

Q. 5. Answer the following in detail. (Solve any 1) (10)

1. Explain any five string functions.
 2. Write a program to accept ten numbers in a loop and print sum accepted of even numbers and odd numbers separately.
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