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MASTER OF COMPUTER APPLICATIONS (MCA)
EXAMINATION : JUNE - 2025
SEMESTER - II
Sub: Advanced DBMS (MCA- 202-22)

Date : 6/6/2025

Total Marks :60

Time: 10.00 am To 12.30 pm

Instruction:

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. Draw neat and labelled diagram wherever necessary.

Q.1. Answer the following in 2-3lines. (Any 5) (10)

Write a query to display the total number of employees in each department using

1. GROUP BY.
2. What is the CHAR and VARCHAR data types?
3. What is the use of the LIKE operator in SQL?
4. What does the DISTINCT keyword do?
5. What is subquery?
6. Differentiate between DELETE and TRUNCATE commands.
7. What is 'dual' table?

Q. 2. Answer the following in short. (Any 4) (20)

1. Write SQL queries to demonstrate the use of the BETWEEN and IN operators.
2. Write PL/SQL program to check if accepted number is prime or not
3. Explain the set operations of SQL?
4. Explain Sequence in detail with example.
5. What is a cursor? Explain type of cursor.
6. Explain different aggregate functions.

Q. 3. Answer the following in detail. (Any 3) (30)

1. What are constraints in SQL? Name and explain in detail.
2. Explain indexing in SQL. How does it improve query performance? Illustrate with an example.
3. Explain the different types of JOINS in SQL with examples.
4. Explain any five string functions with explanations
5. Explain about Data Manipulation Commands with syntax and examples.
