



# PRESIDENCY COLLEGE

(AUTONOMOUS)

AFFILIATED TO BENGALURU CITY UNIVERSITY, APPROVED BY AICTE, DELHI & RECOGNISED BY THE GOVT. OF KARNATAKA  
RE-ACCREDITED BY NAAC WITH 'A+' GRADE

21C204.1C

REG NO:

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END TERM EXAMINATION DECEMBER 2022  
BCA - I SEMESTER  
GC204.1C: DATABASE MANAGEMENT SYSTEMS

Duration: 2 Hours

Max Marks: 60

Instruction: *Answers should be written in English only.*

PART-A

Answer any EIGHT questions. Each question carries TWO marks.

(8 X 2 = 16)

1. Define DBMS.
2. Define primary key with example.
3. What do you mean by a schema?
4. What is file? Mention any two types of file organization.
5. What is indexing?
6. What are domain integrity constraints?
7. List any four aggregate functions.
8. What are DML commands? Give example.
9. Mention advantages of concurrent execution.
10. What is a transaction?

PART-B

Answer any FOUR questions. Each question carries SIX marks.

(4 X 6 = 24)

1. What are various characteristics of database approaches?
2. Explain DDL commands with examples.
3. What are keys? Explain the various types of keys.
4. What is hashing? Explain hashing with an example.
5. Explain the concept of Normalization.
6. Explain the ACID Properties.

### PART-C

Answer any TWO questions. Each question carries TEN marks.

(2 X 10 = 20)

1. Explain the three schema architecture with neat diagram.
2. What are attributes? Explain the various types of attributes.
3. Explain the various transaction control statements with examples.
4. Consider the following database and write the queries.

STUDENT (Reg-No, Name, Course)

MARKS (Reg-No, Sub1, Sub2)

- a) Create STUDENT and MARKS table.
- b) Insert five tuples.
- c) Add a new column, Address in STUDENT table.
- d) Display all the records in the student and marks tables.
- e) Select the name of students starting with 'A' or 'a'.

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