FACULTY OF SCIENCE
B.Sc. (CBCS) II-Year (IV-Semester) Regular & Backlog Examinations, June/July-2023
Computer Science-IV
(Database Management Systems)

Time: 3 Hours   Max Marks: 80

SECTION-A   (4x5=20 Marks)
Answer any Four questions from the following

1.   Specify different Database Languages.

2.   Describe the structure of an SQL Query.

3.   Specify the Problems with ER Models.

4.   What is RAID? Explain.

5.   Explain Three-Level ANSI-SPARC Architecture.

6.   What are Views? Write the advantages of Views.

SECTION-B   (4x15=60 Marks)
Answer all the following questions

7.   (a) Describe the functions of a DBMS.
          (OR)
      (b) Specify the Terminology of Relational Model. Explain various Integrity Constraints.

8.   (a) Explain the Aggregate functions of SQL with example Queries.
          (OR)
      (b) What are Cursors? How to create Cursors? Explain with an example Cursor Program.

9.   (a) Explain Enhanced Entity – Relationship Modeling. Give example.
          (OR)
      (b) What is Normalization? Explain 1NF, 2NF, 3NF and BCNF.

10.   (a) Define Transaction. Explain different Locking Methods in a Transaction.
          (OR)
      (b) What is the Need for Database Recovery? Explain recovery techniques.