B.Sc. (Sem. II)

S. S. Jain Subodh P.G. (Autonomous) College, Jaipur
B.Sc. - II Semester, Session: 2023-24
Subject: Advance Concepts of Programming (Using "C")
Paper Code: - BCOMP201
Assignment

Note- Attempt any TWO questions from any Unit.

UNIT-I

1. Write a program in C to read n number of values in an array and display them.
2. Sort step by step to following elements using Selection Sort :

14	11	91	7	35	61	28

UNIT-II

3. Write any 5 string handling functions with their uses.

4. Write short note on:
   (A) Need of Function
   (B) Scope and visibility of Variable

UNIT-III

5. Write advantages of Pointers. Write a program to perform arithmetic operations using pointer.
6. How can you declare structure and access Structure Members in C ? Explain through an example.

UNIT-IV

7. Write a programs in 'C' language to Create , Open and Close a file.

8. What do you mean by Macro? Explain through example.

*** END***

S. S. Jain Subodh P.G. (Autonomous) College, Jaipur
B.Sc.- II Semester
Session: 2023-24
Subject: Database Management System
Paper Code: - BCOMP202
Assignment

Note- Attempt any TWO questions from any Unit.

UNIT-I

1. What do you mean by DBMS? Explain advantages of DBMS in detail.
2. What is data independence? Explain physical data independence and logical data independence in detail.

UNIT-II

3. What is ER model? Explain ER model with its various symbols.
4. Explain generalization and specialization in detail.

UNIT-III

5. What is functional dependency? Types of functional dependency with example.
6. What is normalization? Explain normal forms up to 3NF.

UNIT-IV

7. What do you understand by SQL? Explain various features of SQL.
8. Write short note on:
   (A) Data types in SQL
   (B) Views and indexes