Q-1   Answer the following questions.   **[20]**

1. Explain the process of linking & compiling a C program.   [5]
2. What is symbolic constant?   [5]
3. What is variable? State the rules of declaring a variable in C.   [5]
4. What is comment? Explain in detail.   [5]

OR

Q-1   Answer the following questions.   **[20]**

1. Explain Flowchart with example.   [5]
2. What are tokens in C? Explain.   [5]
3. What is data type? Explain data types available in C.   [5]
4. What is Programming Language? Explain with its type.   [5]

Q-2   Answer the following questions.   **[20]**

1. Write a note on operators available in C.   [5]
2. Why the use of GOTO should be avoided in C program? Explain.   [5]
3. What is loop? Explain various types of loops available in C.   [10]

OR

Q-2   Answer the following questions.   **[20]**

1. Write a C program that will reverse a given number.   [5]
2. Explain break and continue with example.   [5]
3. Explain decision making statement in C.   [10]

Q-3   Answer the following questions.   **[20]**

1. What is array? Explain types of array. How we can initialize 1D & 2D array?
   Explain it with example.   [10]
2. Write a C Program that will add a 3*3 matrix.   [10]

OR

Q-3   Answer the following questions.   **[20]**

1. What is Character array? How we can create & initialize character array?
   Explain with example.   [10]
2. What is searching? Explain linear search with example.   [10]

Q-4   Answer the following questions.   [20]

    1.   Explain the categories of UDF with example.   [10]
    2.   Explain about declaration of storage class.   [10]

                                      OR

Q-4   **Answer the following questions.**   **[20]**

    1.   Explain any 5 string handling functions   [10]
    2.   Explain the terms call by value and call by reference.   [5]
    3.   What is pointer? Explain in detail.   [5]

Q-5   **Answer the following questions.**   **[20]**

    1.   What is structure? Explain with example how to create a structure   [10]
    2.   Explain the following functions fseek(), rewind() and ftell() with syntax,
          Purpose and example.   [10]

                                      OR

Q-5   **Answer the following questions.**   **[20]**

    1.   Give the difference between Structure and Union. Explain nesting of structure in c   [10]
    2.   Explain command line argument with example.   [10]