1. PROGRAM DEVELOPMENT AND INTRODUCTION TO C

Part – A

1. Define algorithm and program?
2. What are tokens is C language?
3. What are low level language and high level language?
4. List the relational operators in C?
5. Define 'C' character set?

Part – B

1. Write any three advantages of flow chart?
2. List any three features of C language?
3. Draw any three flowchart symbols with their meaning?
4. What are identifiers? Write any two rules for identifiers
5. Define variables?

Part – C

1. Explain program development cycle with diagram?
2. How will you compile, link and run a C program?
3. Draw the diagram of program execution process.
4. Explain in detail about the constants with example?
5. Explain the structure of C program?

2. C OPERATORS, I/O STATEMENT and DECISION MAKING

Part – A

1. Write the difference between while and do-while statements?
2. State the use of abs () and ceil ()?
3. What do you mean by conditional operator?
4. What the use and syntax of clrscr ()?
5. What the use of break statement?

Part – B

1. Write the use of conditional operator with syntax and example?
2. Write the use and syntax of if...Else statement.
3. Write the syntax of the switch case statement with an example.
4. Write the use and syntax of type cast operator?
5. Write the use and syntax of do..while statement.

Part – C

1. Explain switch statement with an example?
2. Explain about for loop with an example.
3. Explain formatted input statement with an example.
4. Explain about arithmetic operators and conditional operators in c.
5. Discuss the different types of operators with example.

3. ARRAYS and STRINGS FUNCTIONS

Part – A

1. What is the scope and life time of variables?
2. What is string function?
3. What is recursion?
4. Comment on two dimensional arrays?

Part – B

1. List out the functions used for reading and writing the string.
2. What are structures? Discuss structure within structures.
3. Write the syntax and example to declare and initialize a string variable?

Part – C

1. Explain arrays within structure with example.
2. Explain any two functions used for reading strings.
3. Explain the different categories of function with example?
4. What is function? Write the general form of defining function.

4. STRUCTURES AND UNIONS, DYNAMIC MEMORY MANAGEMENT

Part – A

1. Write the difference between structure and union?
2. Write the use and syntax of free() function.
3. Write the general form of defining a structure.
4. What is REALLOC?
5. Define Union.

Part – B

1. What are structures? Discuss structure within structures.
2. How to initialize the values to the structure variable?
3. What is union? Write the syntax to define union.

Part – C

1. Discuss in detail about the structures?
2. Explain the different categories of function with example?
3. Explain the functions used for dynamic memory allocation with an example?.
4. Explain about structure within structure with example?

5. "C" PROGRAMMING

Part – C

1. Write C program to find the sum of series using while loop.
2. Write C program to implement Ohm's Law.
3. Write C program to draw the symbol of NPN transistor using graphics.
4. Write C program to swap the values of two variables.
5. Write C program to find resonant frequency of RLC circuit.
6. Write C program to draw the symbol of diode using graphics.