

- Q2. What are the primitive data types in C? Explain them with the help of example.
Q3. Write a C Program and draw a flowchart to find the area and perimeter of a Rectangle.
Q4. What is Type Conversion? Illustrate different ways of type conversion with an example

10Marks

- Q1. With the help of an example program explain the basic structure of a C program.

12 Marks

- Q1. Write a C program to find the largest among three integer numbers. Also draw the flowchart and write an algorithm for the same.
Q2. What are the formatted and unformatted input/output statements in C? With the help of general syntax and example explain the formatted input/output statements in C.

Module-2

2-Marks

- Q1. What are the conditional and unconditional Statements in C.
Q2. Define looping? What are the different types of looping statements in C?
Q3. Explain pre test looping statement with its general syntax.

4-Marks

- Q1. With the help of general syntax explain for statement in C
Q2. With the help of general syntax explain the simple if statement in C.
Q3. Briefly explain Goto and Continue statements.
Q4. Write a C program to check the given number is even or odd.

6-Marks

- Q1. With the help of general syntax and example program explain cascaded if else.
Q2. With the help of general syntax explain nested if else.

8 Marks

- Q1. Write C programs to display 1 to 10 integer numbers on the output using while and do while statement .
Q2. Write a C program to check whether the entered character is a vowel or a consonant using switch statement.
Q3. With the help of an example program explain ladder if else.

10 Marks

- Q1. Write a C program and draw the flowchart to find the roots of quadratic equation.
Q2. With the help of general syntax explain switch statement. Write a C program to simulate simple Calculator.
Q3. With the help of general syntax and example program differentiate pre test and post test looping statements in C

12 Marks

- Q1. Explain if, if else, cascaded if and ladder if else with their general syntax and example program.

Module-3

2 Marks

- Q1. What do you mean by Searching? Mention any three commonly used sorting Techniques.
- Q2. Define Arrays? What are the different types of arrays.
- Q3. Define Strings? Write the general syntax for declaring a string.
- Q4. Explain how two dimensional arrays are declared and initialized.

4-Marks

- Q1. With the help of general syntax explain how 1D and 2D arrays are declared and initialized.
- Q2. Explain how strings are declared and initialized.

6-Marks

- Q1. Explain with the help of an example program how one dimensional arrays are declared and initialized.
- Q2. Write a C program to check whether the given number is a palindrome or not.
- Q3. Briefly explain any six String Handling functions.
- Q4. Write a C program to generate given N numbers of a Fibonacci series.

8-Marks

- Q1. Write a c program to perform the addition of two matrices.
- Q2. Write a C program to search a given number in a set of integer numbers using binary search technique.
- Q3. Write a C program to sort N integer numbers using bubble sort.

10-Marks

- Q1. Write a C program to perform multiplication of two matrices.
- Q2. Write a C program and draw a flowchart to generate all the prime numbers between 1 and N, where N is the value supplied by the user.

12-Marks

- Q1. Write C program for the following without using library functions.
 - a. copy one string from one location to another.
 - b. Join two strings.

Module -4

2-Marks

- Q1. Define Functions? What are the different types of functions are there in C.
- Q2. What are the components of a user defined function?
- Q3. What do you mean by function prototype?
- Q4. Briefly explain any two in built functions used in C.
- Q5. What are structures in C? Give the general syntax of structures.

4-Marks

- Q1. Define Recursive function. Explain with the help of an example.
- Q2. Briefly explain the two parameter passing techniques in C.
- Q3. Write a C program to swap two integer numbers using functions.

6-Marks

- Q1. Write a C program to find the factorial of a given number using functions.
- Q2. With the help of an example program explain the call by value parameter passing mechanism in C.
- Q3. Explain function definition, function call and function declaration with example.
- Q4. What are actual parameters and formal parameters? Illustrate with the help of an example.

8-Marks

- Q1. With the help of an example program explain call by reference parameter passing mechanism in C.
- Q2. Explain the different types of functions based on the number of parameters.

10-Marks

- Q1. Write a C program to display Fibonacci series using recursive function.
- Q2. Write a C program to sort the set of N integer numbers using selection sort.
- Q3. Write a C program to perform insertion sort in order to sort N integer numbers.
- Q4. Create a Book structure containing book_id, title, author name and price. Write a C program to pass a structure as a function argument and print the book details.

Module-5

2-Marks

- Q1. Define File? Mention any four file handling functions in C.
- Q2. Define pointer? Give the general syntax how pointers are declared.

4-Marks

- Q1. Explain with example how pointers are declared and initialized.
- Q2. Illustrate with the help of C program, the concept of pointers with functions.

6-Marks

- Q1. Explain any six file handling functions in C.
- Q2. What are preprocessor directives? Explain any two.

8-Marks

- Q1. Write a C program to copy the content of one File to another.
- Q2. What do you mean by dynamic memory allocation? With the help of general syntax explain the DMA functions.
- Q3. Write a C program using pointers to compute the sum, mean and standard deviation of all elements stored in an array of n integer numbers.
- Q4. Write a C program to swap two numbers using pointers.

10- Marks

- Q1. With the help of example program explain malloc and calloc functions.
- Q2. What is the need of realloc function? Explain with the help of an example program.

