

20. How will you open a file in C? List the modes used for opening a file. [K₁]

Answer any FIVE Questions:-

PART C (5 x 14 = 70 Marks)

(Answer not more than 300 words)

Q.No. 21 is Compulsory

21. a) Outline the steps of an algorithm and draw a flowchart for printing the sum of even terms contained within the numbers from 0 to 20. (7) [K₂]
b) Explain about the first three generations of programming languages. (7) [K₂]
22. a) Outline the features and working of compiler, Linker, Loader and Interpreter. (10) [K₂]
b) Translate the numbers from decimal to binary and binary to decimal (4) [K₂]
a) $(127)_{10}$ b) $(11011011.100101)_2$
23. a) Illustrate the usage of the following looping statements using suitable examples. (7) [K₂]
i) do-while ii) while c) for loop
b) Write a C program using function to sort an array of n numbers. (7) [K₁]
24. a) Illustrate two dimensional array concept by developing a C program to find the sum of two matrices. (10) [K₂]
b) Write a C program to find whether the given string is palindrome or not without using string functions (4) [K₁]
25. a) Explain about the types of storage classes with examples. (10) [K₂]
b) Show how "Pass by Value" and "Pass by reference" are different from each other. (4) [K₂]
26. Write a C program using structure and file to read 5 employees' data and calculate their total salary. The program should enable the user to enter the details via keyboard and store it into the first file. Later, the program is written in such a way that the results are printed onto the screen after reading the data from the disk file. [K₂]
