Unit - 1

4 Explain the components of Digital computer with the help of Block Diagram

4 What is an operating system? Explain the functionality of services provided by OS.

4 Differentiate compiler & Interpreter.

4 Define Linker and Loader

4 What are the types of Programming language

4 What is an algorithm. Explain its properties.

4 What is Flowchart? Explain all the symbols in flowchart

4 What is a Data type? Explains primitive or primary datatype along with their size, keyword, range and format specifier

4 Explain various storage class in c? explain with the help of example

4 Explain the structure of c program.

4 Errors and types with example

Unit:-2

4) explain various categories of operator with the help of example

4) explain operator precedence and associativity.

4) Write down the syntax of all the decission making statement if, if else. else if ladder, switch

4) Differentiate b/w i) switch & else ladder
ii) type conversion & type casting.

(Flow chart of each program)

4) WAP to check whether A triangle is equilateral Δ or not

4) WAP to check whether the roots of quadratic eqn are real, equal, or imaginary also find real & equal Roots

4) WAP to perform arthimetic operation on two variable using switch

4)

Q14. Memory hiearchy of comput system

Unit - 3

Loops

4) Differentiate b/w entry & exit control loop or while or do while

4) Differentiate b/w Break & continue

4) Syntax of while / Do while / For loop

4) WAP to check whether pallindrome or not

4) Armstrong 4 Prime Number
   4 Fibonanci Series

4) Sum of the series $L1 + L2 + L3 + \cdots n$.

4) To print prime numbers 1 to 500

function

4) What is a function? Explain various types and category of function

4) Difference b/w Actual & formal arguments

4) explain use of return statement.

4) What are the various parameter passing mechanism

OR

4) Difference b/w call by value or call by reference

4   What is recursion?

4   WAP to find factorial of the number using recursion.

4   Fibonacci Series upto n. using Recursion

4   Any one program by using all the category of user-defined function.

Unit:-4

Array

4   What is an Array? Explain advantages & Disadvantages of array.

4   WAP to find maximum element of an array.

4   WAP to perform linear Search

4   WAP to perform Binary Search

4   to perform Bubble sort

2D

4   to find transpose of a Matrix and whether symmetric or not

4. to find trace of a matrix.

4. to multiply matrix A of order m×n with B of order p×q.

4. what is a string? How it is declared and initialized

4. Explain various string handling function and Example

6. To check whether a string Pallindrome or Not

4. Differentiate b/w structure & Union

4. WAP to create a record of 20 students consist of Student Name, Rollno, Marks of a subject. print the details those students who score greather 50.

4. Explain user defined datatype with example (typedef & enums).

Unit: 5

↳ What is a pointer ? How it is declared and intialized.

↳ Write a short note on pointer arithmetic

↳ Bubble using pointer

↳ Explain various DMA with example (Malloc & Calloc)

2 What is a preprocessor? Explain various pre-processor desitative

OR

2 Short o'note on ↳ File inclusion
↳ Macros
↳ Conditional compliation

↳ What is a file ? What are the various mode of file

↳ Explain various file handling function with syntax

↳ WAP to count number of character in a file

↳ WAP to copy the content of file into other file

4 two file identical or not (program)

4 to input integer 1 to 10 named file
   1.c out of these integer, write all
   the even integer name even.c and
   odd integer name odd.c

4 Short note on line list, Notion
   of order of complexity. or aysmp
   text Notion.

4 Short note on command line argument