



C PROGRAMMING FOR PROBLEM SOLVING
(Civil Engineering)

Maximum Marks: 60

Date:16.09.2023 Duration: 3 hours

PART-A

All the following questions carry equal marks

(10x1M=10 Marks)

1. Define an algorithm? List out characteristics of an algorithm?
2. Define expression?
3. What is meant by searching? What are different types of searching?
4. What is recursive function?
5. Define a pointer? Write the syntax for initialization of a pointer?
6. List any five string handling functions and their meanings?
7. What are command line arguments with syntax?
8. Define structure with syntax?
9. List any two differences between text file and binary file?
10. Explain rewind () and fseek()

PART-B

Answer All the following questions.

(5X10M=50Marks)

11. What are the different types of Operators used in C language. [10]
(OR)
12. Briefly discuss about conditional or selection statements used in C language. [10]
13. Explain Binary search with an example program. [10]
(OR)
14. Define an array. Explain about different types of arrays in C with example. [10]
15. Explain inter function communication with example. [10]
(OR)
16. Write a C program to count number of vowels in a give string? [10]
17. Explain about nested structures with example. [10]
(OR)
18. Explain about Bit fields with suitable example. [10]
19. Define File? Explain in detail about streams. [10]
(OR)
20. Explain about file positioning functions in C. [10]