

7205/A12

OCTOBER 2008

PROGRAMMING IN C

Time : Three hours Maximum : 100 marks

PART A — (6 × 5 = 30 marks)

Answer any SIX questions.

1. Discuss about the striking features of C.
2. Explain with example, Nested IF construct in C.
3. Distinguish between actual and formal arguments.
4. Discuss the various bitwise operators in C.
5. How are one-dimensional arrays initialized in a C program?
6. Describe the operators used for getting the address of a variable and the value of a pointer variable.
7. Compare a structure and a union.
8. Explain how you represent nested structures.
9. Describe the uses of the functions fprintf and fscanf.
10. List out the file handling functions in C.



PART B — (4 × 10 = 40 marks)

Answer any FOUR questions.

11. Discuss the precedence and associativity of operators in C.
12. Write a program in C to solve a quadratic equation for all possible roots.
13. Write functions to implement the string handling operations strlen and strcat.
14. Write a C program to sort the given 'N' numbers.
15. Define a structure for holding a complex number and write a program to manipulate them.
16. Discuss the various file handling operations in C.

PART C — (2 × 15 = 30 marks)

Answer any TWO questions.

17. (a) Describe the usage of bit manipulation operators in C.
(b) What is ternary operator? Explain with an example.

18. (a) Write a C program to find the trace of a matrix.

(b) Write a function in C to search and return the index of an element in an ordered array.

19. What is random file? Explain how they are implemented in C.