

PROGRAMMING IN C

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Time : Three hours

Maximum : 100 marks

PART A — (6 × 5 = 30 marks)

Answer any SIX questions.

1. Discuss about identifiers.
2. Describe the different forms of if statements in C with examples.
3. Discuss in detail about recursion.
4. Explain the features of a static variable.
5. What is an array? How arrays are declared and initialized? Explain.
6. Explain the relationship between an array and a structure.
7. How to passing structures to functions.
8. Describe about pointers.

9. What is files? and how to access a file?
10. Write about the usage of fgets and fputs.

PART B — (4 × 10 = 40 marks)

Answer any FOUR questions.

11. State all the precedence rules involving arithmetic, relational and logical operators.
12. Explain the storage classes in C with examples.
13. Write a C program accept two matrices of order nxn and display their sum.
14. Discuss in detail about unions.
15. Write a program that sorts a set of given numbers in ascending order.
16. Write about files with simple examples.

PART C — (2 × 15 = 30 marks)

Answer any TWO questions.

17. Explain call by value and call by reference methods of passing parameters.

18. (a) Explain the looping structures in C with example.

(b) Write notes on structure of C program.

19. (a) What is recursive function? Give an example.

(b) What are the basic file operation?

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