

**APRIL 2021**

**50401/SAE1A**

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Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions.

1. What are constants?
2. How variables are declared in C?
3. What is the difference between = and == operator?
4. What is branching?
5. What is the purpose of break statement?
6. What is void' data type?
7. What is a local variable?
8. Name the four storage classes in C.
9. What is a string?
10. What is union?
11. What is indirection operator?
12. What is a file?

PART B — (5 × 5 = 25 marks)

Answer any FIVE questions.

13. Explain the various data types in C.
14. Explain if... else statement with its syntax.
15. Write a program to check whether the given integer is prime or not.
16. What is recursion? Write a recursive program to find the factorial value of an integer.
17. What is a structure? How structure members are accessed in C? Explain.
18. Write a note on bitwise operators.
19. Explain the various operations on pointers in C

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

20. List and explain any ten commonly used library functions in C.
21. Describe the three looping statements in C with examples.

22. Explain user defined functions in C with examples.
  23. Write a C program to find the multiplication of two matrices.
  24. (a) Write a note on call by reference. (5)  
(b) Write a C program to copy the content of one file to another file. (5)
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