

NOVEMBER 2019

50401/SAE1A

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions.

1. How are octal and hexadecimal constants represented?
2. What are escape sequences?
3. What are compound statements?
4. What is the use of comma operator?
5. What is an expression statement?
6. Write the syntax for the return statement.
7. What are actual parameters?
8. What are arrays?
9. How is a structure member accessed?
10. What is the purpose of the typedef feature?
11. What is a pointer?
12. What is the significance of EOF?

I B.Sc (Cs) - Programming in C

PART B — (5 × 5 = 25 marks)

Answer any FIVE questions.

13. Describe any five unary operators in C.
14. Discuss the commonly used output functions in C.
15. Write a program in C to generate the Fibonacci series using a while loop.
16. Give a brief account on storage classes in C.
17. Write a C program to find the mean and variance of ten floating point numbers.
18. Give a brief account on Multidimensional arrays.
19. Explain the difference between structure and union in C.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

20. What are the various data types in C? Explain.
21. Describe the three looping statements in C with examples.
22. Describe the general syntax for a function declaration and function definition with an example in C.

23. How to pass structures to functions? Explain with an example program.
24. What is a file? Explain the various file operations in C with examples.