23U347 (Pages: 2) Name: .....

Reg.No: .....

THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2024

(CBCSS - UG)

(Regular/Supplementary/Improvement)

CC19U CSC3 C03 - PROBLEM SOLVING USING C

(Computer Science - Complementary Course)

(2019 Admission onwards)

Time : 2.00 Hours Maximum : 60 Marks

Credit : 2

Part A (Short answer questions)

Answer ***all*** questions. Each question carries 2 marks.

1. What is meant by character set in C?
2. What is string constant?
3. What is the purpose of getchar() function?
4. What are jumping statement? Write a short note on one jumping statement.
5. Explain how you can declare and initialize a one dimensional array in C.
6. Write any one methode of initializing two dimensional array in C.
7. Compare strcat() and strcmp().
8. What is meant by call by reference method in C? Explain its syntax.
9. What is the use 'extern' variable?
10. Define pointer. How can you declare it.
11. What is the use of indirection operatorin Pointers?
12. How to close a data file in C?

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

Answer ***all*** questions. Each question carries 5 marks.

13. Write a short note on Logical Operator in C with suitable examples.
14. Write a C program to find the roots of a quadratic equation.
15. What are character arrays? How they are declared and initialized? Explain with examples.
16. Define union. Explain the general template of union with example.
17. What are functions? Explain function definition and function call with syntax.

18. With proper examples explain different arithmetic operations on pointers.

19. Briefly explain the various dynamic memory allocation functions with syntax.

(Ceiling: 30 Marks)

Part C (Essay questions)

Answer any ***one*** question. The question carries 10 marks.

20. Compare 'for','while','do-while' with suitable examples.

21. (a) What is recursion? Write a C program to find the factorial of a given number using recursion.
    (b) Distinguish formal and actual arguments.

(1 × 10 = 10 Marks)

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