24U348S (Pages: 2) Name: .....

Reg.No: .....

THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2025

(CBCSS - UG)

CC19UCSC3C03 - PROBLEM SOLVING USING C

(Computer Science - Complementary Course)

(2019 to 2023 Admissions - Supplementary/Improvement)

Time : 2.00 Hours Maximum : 60 Marks

Credit : 2

Part A (Short answer questions)

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

1. Define Symbolic constants.
2. What are the bitwise operations in 'C' ?
3. What is the syntax of printf statements?
4. Write the syntax of any one entry controlled loop
5. Distinguish between break and continue statements in C.
6. What is union?
7. What is a function ? List any two advantages of using functions.
8. What is the difference between actual and formal parameters ?
9. What is a pointer? How will you access a variable through its pointer?
10. what is the use of indirection operatorin Pointers?
11. Explain, how addition and subtraction operations can be performed by using pointers.
12. What is a random access file?

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

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

13. (a) What is an identifier?Give the rules for identifier.
    (b) Compare keyword and identifier.
14. With suitable example,explain switch statement.
15. Write a C program to find the average of set of N numbers.
16. Write a C program to subtract two matrices.

17. What are arguments ? Explain any 2 categories of function.

18. Differentiate static and register variable with example.

19. What is the difference between calloc(),free() and realloc() ?

(Ceiling: 30 Marks)

Part C (Essay questions)

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

20. Write a detailed note on various string handling functions in C language.

21. What are the various parameter passing techniques used in C? Explain with examples.

(1 × 10 = 10 Marks)

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