

23U224

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Name: .....

Reg.No: .....

**SECOND SEMESTER B.Sc./B.C.A. DEGREE EXAMINATION, APRIL 2024**

(CBCSS - UG)

(Regular/Supplementary/Improvement)

**CC19U BCS2 B02 / CC19U BCA2 B02 - PROBLEM USING C**

(Computer Science / Computer Application - Core Course)

(2019 Admission onwards)

Time : 2.00 Hours

Maximum : 60 Marks

Credit : 3

**Part A** (Short answer questions)

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

1. Write a note on C program structure.
2. List down the steps in executing a C program.
3. What are keywords?
4. What are the logical operators?
5. What is operator precedence and associativity?
6. Write down syntax of getchar() and putchar() functions.
7. Explain the concept of if-else-if ladder.
8. Explain any two string function.
9. What are formal parameters? Give example.
10. Explain the use of pointer in accessing a character string.
11. What are the memory management functions in C?
12. Write a note on command line arguments.

**(Ceiling: 20 Marks)**

**Part B** (Short essay questions - Paragraph)

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

13. What are the different types of constants?
14. Explain type casting with example.
15. Explain the use of Switch statement in C.
16. Write a program that prints the even numbers from 1 to 100.

17. How do you declare a one dimensional array? How do you pass an array as an argument to a function using a Call by Reference method?
18. Discuss the different storage classes in C.
19. Narrate the concept of Pointers and Arrays in detail.

**(Ceiling: 30 Marks)**

**Part C (Essay questions)**

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

20. Briefly explain the different mathematical functions used in C with their purpose.
21. Discuss the scope, visibility and lifetime of variables.

**(1 × 10 = 10 Marks)**

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