25U271S (Pages: 2) Name: .....

Reg.No: .....

SECOND SEMESTER B.Voc. DEGREE EXAMINATION, APRIL 2026

(CBCSS - UG)

CC21USDC2PC04 - PROBLEM SOLVING USING C

(Information Technology - Core Course)

(2021 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. List any four importance of C.
2. Explain with example the precedence of operators in arithmetic operations.
3. Define implicit and explicit type conversion.
4. Describe how a character is read from keyboard and write to the screen?
5. Explain the functioning of a switch statement. Illustrate with an example
6. What do you mean by recursion?
7. What are external variables?
8. What is structure? What are the rules for defining a structure?
9. What are the rules of pointer operations?
10. Show the accessing of a variable through its pointer.
11. Explain pointers to functions.
12. What is use of malloc () and calloc () function?

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

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

13. What are C tokens? Explain.
14. Write a short note on storage classes in C.
15. What are various jumping statements? Explain each.
16. Write a program to find largest and second largest element in an array.
17. What do you mean by call by value and call by reference?

18. What are structures and unions? How a structure is created and referenced? Illustrate.

19. Write a program to read data from the keyboard, write it to a file called INPUT, again read the same data from the INPUT file and display it on the screen.

(Ceiling: 30 Marks)

Part C (Essay questions)

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

20. Explain different operators in C.

21. Explain different string handling functions in C.

(1 × 10 = 10 Marks)

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