22U256 (Pages: 2) Name: .....

Reg.No: .....

SECOND SEMESTER B.Voc. DEGREE EXAMINATION, APRIL 2023

(CBCSS - UG)

(Regular/Supplementary/Improvement)

CC21U SDC2 PC04 - PROBLEM SOLVING USING C

(Information Technology)

(2021 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 are the steps involved in executing a C program?
2. What are the rules apply to a #define statement while defining symbolic constant?
3. What is the difference between j++ and ++j? Explain with example.
4. What is a multidimensional array?
5. Differentiate puts() and putchar() functions.
6. Explain recursion with example.
7. What are static variables?
8. Explain compile-time initialization of a structure with example?
9. How will you declare and initialize pointer variable?
10. What are the pointer variable and pointer expression?
11. Define free().
12. Write the different modes of opening a file in C?

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

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

13. Explain the evaluation of expressions. What are the rules for evaluation of expression?
14. Explain the operator precedence and associativity.
15. Write a C program to perform simple arithmetic calculation using nested if.
16. Differentiate between switch and if-else.
17. Explain function definition and function prototyping.

18. Explain the concept of array of structures with suitable example.

19. Explain the concept of pointers and structures with suitable example.

(Ceiling: 30 Marks)

Part C (Essay questions)

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

20. In detail, explain the C tokens.

21. Explain entry controlled loop and exit controlled loop with example.

(1 × 10 = 10 Marks)

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