23U256 (Pages: 2) Name: .....

Reg.No: .....

SECOND SEMESTER B.Voc. DEGREE EXAMINATION, APRIL 2024

(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. Differentiate between Keyword and Identifier.
2. Write a program to check whether given number is divisible by 9 or not.
3. Explain with example the precedence of operators in arithmetic operations.
4. Explain the functioning of a switch statement. Illustrate with an example
5. Explain four standard library functions used for string manipulation.
6. Define Modular programming. What are the characteristics of modular programming?
7. Explain recursion with example.
8. What is meant by nested structures?
9. Write a program using pointers to compute the sum of all elements stored in an array.
10. Show the accessing of a variable through its pointer.
11. Explain pointers and structure.
12. Define calloc().

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

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

13. Explain the basic structure of a C program.
14. Explain type conversions in expression.
15. Explain formatted input-output function in C.
16. Write C program to search a number in an array and display its position.

17. What do you mean by scope of a variable? Differentiate between local and global variables with example.

18. What is structure? Explain the C syntax of structure declaration with example.

19. Explain reading and writing of data into a file.

(Ceiling: 30 Marks)

Part C (Essay questions)

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

20. What are the different data types used in C? Explain each.

21. Explain the different looping control structures available in C.

(1 × 10 = 10 Marks)

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