21U256
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Name: ....

Reg.No: ....

SECOND SEMESTER B.Voc. DEGREE EXAMINATION, APRIL 2022
(CBCSS - UG)
CC21U SDC2 PC04 - PROBLEM SOLVING USING C
(Information Technology - Core Course)
(2021 Admissions - Regular)

Time : 2.00 Hours

Maximum : 60 Marks

Credit : 2

Part A (Short answer questions)

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

1. Why and when do we use the #include directive?

2. What are the rules apply to a #define statement while defining symbolic constant?

3. Write any four mathematical functions available in C.

4. Write the general syntax and working of switch statement in C language.

5. Explain while statement with an example.

6. Compare static and automatic variables.

7. Describe the different ways of assigning values to structure members.

8. What is Union? Explain the C syntax of union declaration.

9. Discuss various pointer declaration styles.

10. Show the accessing of a variable through its pointer.

11. Discuss various dynamic memory allocation functions.

12. Explain getw and putw functions.

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

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

13. What are trigraph characters? How are they useful?

14. Explain the evaluation of expressions. What are the rules for evaluation of expression?

15. Explain how will you declare and initialize two dimensional arrays with example.

16. Define string. How string is declared and initialized? Explain string input/output functions with an example.

17. What do you mean by call by value and call by reference?

18. Explain nesting of functions. Write a program to find the factorial of a number using recursion.

19. What are pointers? Write a program to illustrate the use of structure pointers

(Ceiling: 30 Marks)

Part C (Essay questions)

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

20. What is an operator? List and explain various types of operators.

21. Explain decision making and branching statements with example.

(1 × 10 = 10 Marks)

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