**THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2020**

(CBCSS - UG)

**CC19U CSC3 C03 - PROBLEM SOLVING USING C**

(Computer Science - Complementary Course )

(2019 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. What are escape sequences? Give examples with explanation.

2. Explain enumerated data type with an example.

3. Write down syntax of getchar() and putchar() functions?

4. Write a short note on goto statement.

5. Explain the declaration of one-dimentional array with example.

6. Write a short on two dimensional array initialization with one example.

7. Differentiate structure and union ?

8. What is a function ? List any two advantages of using functions.

9. What is meant by call by value method in C ? Explain its syntax.

10. Define pointer. How can you declare it?

11. Explain, how addition and subtraction operations can be performed by using pointers.

12. What are Library functions ? List out any two library functions.

**(Ceiling: 20 Marks)**

**Part B** (Short essay questions)

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

13. Write a short note on logical and increment and decrement operators in C.

14. Write the syntax and examples of various if-else statements.

15. What are character arrays ? How they are declared and initialized ? Explain with examples.

16. With suitable example,explain string handling functions.

17. Explain the difference between 'auto' and 'extern' variables in C with example.

18. Write a C program to read and print an array of elements using pointers.

19. What are the various random access file handling functions in C ?

**(Ceiling: 30 Marks)**

**Part C** (Essay questions)

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

20. Compare 'for','while','do-while' with suitable examples.

21. Explain the various categories of function based on arguments with suitable examples.

**(1 × 10 = 10 Marks)**

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