SECOND SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2023

(CBCSS - UG)

(Regular/Supplementary/Improvement)

CC19U BCS2 B02 / CC19U BCA2 B02 - PROBLEM SOLVING USING C

(Computer Science / Computer Application - Core Course)

(2019 Admission onwards)

Time : 2.00 Hours   Maximum : 60 Marks

Credit : 3

Part A (Short answer questions)

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

1. List down the various sections in a C program.

2. What is meant by IDE?

3. What do you mean by variabale initialization in C? Illustrate with an example.

4. What is the result of the expression 14%-5? Explain it.

5. List I/O functions in C.

6. Write down syntax of getchar() and putchar() functions.

7. Distinguish between go to and continue statements.

8. Explain the function and syntax of any two string functions available in C.

9. Give the differences between array and structures.

10. What is a Pointer? Explain its advantages.

11. How will you access a pointer variable in C?

12. What are the different modes to open a file?

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

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

13. Write a detailed note about keywords and identifiers in C. Explain with examples.

14. Explain the precendence law in arithematic operators.

15. Write a C program to find the largest of three numbers.

16. Write a Program that will print a multiplication table of a given number.

17. Write a short note on array.

18. Illustrate Recursion with an example.

19. What is meant by dynamic memory allocation? Explain various memory allocation functions.

(Ceiling: 30 Marks)

Part C (Essay questions)

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

20. What are operators in C? Explain different categories of operators in detail.

21. What are the parameter passing techniques used in C? Explain with examples.

(1 × 10 = 10 Marks)

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