

25U225S

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Name:

Reg.No:

SECOND SEMESTER B.Sc./B.C.A. DEGREE EXAMINATION, APRIL 2026

(CBCSS - UG)

CC19UBCS2B02 / CC19UBCA2B02 - PROBLEM SOLVING USING C

(Computer Science / Computer Application - Core Course)

(2019 to 2023 Admissions - Supplementary)

Time : 2.00 Hours

Maximum : 60 Marks

Credit : 3

Part A (Short answer questions)

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

1. Explain the basic structure of a C program.
2. Differentiate trigraph and escape sequences in C.
3. What is the difference between j++ and ++j ? Explain with example.
4. What is a conditional operator? Explain with example.
5. What is the significance of stdio.h and math.h?
6. Write any four functions contained in ctype.h.
7. Write the syntax and use of return statement.
8. Define Array.
9. What are actual parameters? Give example.
10. Explain the structure of a C program.
11. What is a Pointer? Explain its Advantages.
12. How will you access a pointer variable in C?

(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. Write a c program to find the largest of three numbers.
15. Explain the syntax of switch statement with an example.
16. Describe any four string handling functions.
17. Distinguish between the use of pointers and arrays for strings.

18. What is meant by Dynamic memory allocation? Explain various memory allocation functions.
19. Explain defining and opening of a file in C.

(Ceiling: 30 Marks)

Part C (Essay questions)

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

20. Write a detailed note on Arithmetic, logical and assignment operators in C language with suitable examples.
21. Describe the various categories of functions with examples.

(1 × 10 = 10 Marks)
