



K26U 0871

Reg. No. :

Name :

Second Semester B.Sc. AI & ML Degree (C.B.C.S.S. – O.B.E. –
Supplementary) Examination, April 2026
(2023 Admission)

Core Course

2B02 AIML : PROGRAMMING IN C

Time : 3 Hours

Max. Marks : 40

PART – A

(Short Answer)

Answer **all** questions. **Each** question carries **1** mark.

(6×1=6)

1. What is a token in C ?
2. Give an example of a ternary operator.
3. What does EOF stand for in file handling ?
4. How do you access a structure member using a pointer ?
5. What is the size of an int data type in a 16-bit compiler ?
6. Name the operator used to find the size of a variable.

PART – B

(Short Essay)

Answer **any six** questions. **Each** question carries **2** marks.

(6×2=12)

7. Explain the rules for naming identifiers in C.
8. Distinguish between auto and register storage classes in C.
9. Explain the continue statement with an example.
10. How do you initialize a two-dimensional array ?

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11. What is the purpose of the return statement in functions ?
12. Define a union and show its syntax.
13. What is an array of pointers ?
14. List any two error-handling functions in file I/O.

PART – C

(Essay)

Answer **any four** questions. **Each** question carries **3** marks.

(4×3=12)

15. Write a program to generate the Fibonacci sequence up to N terms.
16. What are the potential issues with type conversion in C ?
17. Write a program to find the transpose of a 3 × 3 matrix.
18. Explain the function declaration and function prototype.
19. Write a program to illustrate nested structures.
20. Explain the fseek() and ftell() functions with examples.

PART – D

(Long Essay)

Answer **any two** questions. **Each** question carries **5** marks.

(2×5=10)

21. Elaborate on the different types of operators available in C.
 22. Explain the concept of multidimensional arrays and write a program for matrix multiplication.
 23. Discuss recursive functions and write a program to find the factorial of a number using recursion.
 24. Explain the process of opening, closing, and processing files in C.
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