



**2023/TDC(CBCS)/EVEN/SEM/  
CACCC-201T/063**

**TDC (CBCS) Even Semester Exam., 2023**

**COMPUTER APPLICATIONS**

**( 2nd Semester )**

Course No. : CACCC-201T

**( Introduction to Programming )**

Full Marks : 50

Pass Marks : 20

Time : 3 hours

*The figures in the margin indicate full marks  
for the questions*

**SECTION—A**

Answer any *ten* questions from the following :  $2 \times 10 = 20$

1. Explain the procedural programming in detail.
2. In a program, explain the use of `getc()` and `putc()`.
3. Describe the scope of variables in C/C++.
4. Describe the for loop in C/C++.
5. Describe the do-while loop in C/C++.



6. Explain the unary operator in C/C++.
7. Describe the inline function in C/C++.
8. What is an Array in C/C++?
9. What is a function in C/C++?
10. Explain the preprocessor directives.
11. In a program, explain the use of write().
12. In a program, explain the use of read().
13. What is a constructor?
14. What is a class?
15. What is an object?

#### SECTION—B

Answer any *five* questions from the following : 6×5=30

16. Explain the difference between procedural programming and object-oriented programming.
17. What is an operator? Describe the type of operator detail in C/C++.

18. Explain the switch-case with suitable example.
19. Explain the use of break and continue in loops with suitable example.
20. Describe the concept of call by value and call by reference with suitable example.
21. Explain the one-dimensional and two-dimensional array with suitable example.
22. What are the uses of structure? Explain with an example. Also explain the concept of nested structures.
23. What are the uses of union? Explain with an example.
24. Explain the concept of inheritance in C++ with example.
25. Write short notes on :
  - (a) Copy constructor
  - (b) Polymorphism
  - (c) Protected access specifier
  - (d) Private access specifier

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