



**2022/TDC(CBCS)/EVEN/SEM/  
CACCC-201T/348**

**TDC (CBCS) Even Semester Exam., 2022**

**COMPUTER APPLICATION**

**( 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 :

2×10=20

1. Specify the uses of printf( ), scanf( ), cin and cout statements.
2. Differentiate character constant and string constant.
3. Mention the different types of operators used in C++.
4. Describe conditional statement in brief.



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5. What is unary operator? How does ++i differ from i++?
6. Differentiate break and continue statements.
7. What is inline function?
8. What are the differences between call by value and call by reference?
9. What is an array? Discuss the initialization of one-dimensional array.
10. What do you mean by union?
11. Write down the purpose of the following directives :  
# define, # if
12. What are the uses of ifstream and ofstream classes?
13. What is constructor? Mention the different types of constructor.
14. What is polymorphism? Give an example.
15. Differentiate protected and private access specifiers.

**SECTION—B**

Answer any five questions :

6×5=30

16. What is procedural programming? How does it differ from object-oriented programming? Explain.

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( Continued )

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17. What are the primitive data types used in C++? Discuss typecasting with an example.
18. Write a program to reverse the digits of a number using while loop.
19. Discuss different iterative statements in detail.
20. Write a C++ program to find the factorial of a number—  
(a) using recursion;  
(b) without using recursion.
21. Write a program to add two matrices.
22. Describe structure with an example. What are the advantages of using structure as a data type? How does structure differ from union?
23. How to open and close a file in C++? Discuss with an example.
24. What is inheritance? What are the different forms of inheritance? Give an example of each.
25. Describe constructor overloading and function overloading with an example.

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