

Roll No. : 5240010060007

BCAS2612

BCA., Semester Second

Examination, 2024-25

COMPUTER SCIENCE

Paper - Second

[Introduction to C++]

[Time : 3 Hours]

[Maximum Marks : 70]

Note : The question paper contains two sections. Section A contains 08 short answer type questions. Attempt any 05 questions from this section. Each question carries 05 marks. Section B contains 05 long answer type questions. Attempt any 03 questions from this section. Each question carries 15 marks.

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[P.T.O.]

SECTION - A
(Short Answer Type Questions)

Note: Attempt any 05 questions out of 08 given.

(5×5=25)

1. What do you mean by recursion? Write a recursive function to find the nth term of Fibonacci Series.
2. What is the role of destructor? Explain with suitable example.
3. Explain inline functions in C++ with example.
4. Define Stream classes with suitable example.
5. What is friend function? Explain with example.
6. Explain various loops in C++ with example.
7. Write a program in C++ to find factorial of any number.
8. Write short notes on Base classes and derived classes.

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SECTION - B
(Long Answer Type Questions)

Note: Attempt any 03 questions out of 05 given.

(3×15=45)

9. Describe various types of inheritance in C++. Write a C++ program to illustrate multiple inheritance.
10. Describe various operators in C++ with the help of suitable examples.
11. What is operator overloading? Write a program in C++ for operator overloading.
12. Write short notes on:
 - (a) Array
 - (b) Structure
 - (c) Pointers
13. What is object oriented programming? What are the main characteristics of OOP also describe its basic concepts. Compare object oriented programming with procedure oriented programming.

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