



K23U 3415

Reg. No. : .....

Name : .....

III Semester B.Sc. Degree (C.B.C.S.S. – O.B.E. – Regular/Supplementary/  
Improvement) Examination, November 2023

(2019 to 2022 Admissions)

GENERAL AWARENESS COURSE IN COMPUTER SCIENCE

3A11CSC : Programming in C++

Time : 3 Hours

Max. Marks : 40

PART – A

Short answer.

Answer **all** questions :

(6×1=6)

1. What is a constructor ?
2. What is a class ?
3. What is dynamic memory allocation ?
4. Define inheritance.
5. List the operators that cannot be overloaded in C++.
6. What are virtual functions ?

PART – B

Short Essay.

Answer **any 6** questions :

(6×2=12)

7. Write a note on different applications of C++.
8. What do you mean by reference variables ?
9. Briefly explain function overloading.
10. Explain the concept of nesting of member functions.

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11. Is it possible to make a private member inheritable ? Explain.
12. What are pointer to objects ?
13. What is a file ? Which are the different classes for file stream operations ?
14. What are manipulators ? Give examples.

PART – C

**Essay.**

Answer **any 4** questions :

(4×3=12)

15. Explain inline functions with an example.
16. Create two files named file 1 and file 2 which contains sorted list of integers. Write a program that reads the contents of both the files and stores the merged list in sorted form in a new file.
17. How will you use object as function argument ?
18. Write a program using class concept to find the sum of elements in an array.
19. List out the various situations for the execution of a base class constructor in inheritance.
20. Write a program to implement single inheritance using private derivation.

PART – D

**Long Essay.**

Answer **any 2** questions :

(2×5=10)

21. Differentiate between Object Oriented Programming and Procedure Oriented Programming.
  22. How will you use multiple constructors inside a class ? Explain with suitable examples.
  23. Write a program to perform complex number addition by overloading + operator implemented as member function.
  24. Explain stream classes in C++.
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