

Reg. No. :

Name :

**III Semester B.Sc. Degree CBCSS (OBE) – Regular
Examination, November 2020
(2019 Admission Only)
GENERAL AWARENESS COURSE IN COMPUTER SCIENCE
3A11CSC : Programming in C++**

Time : 3 Hours

Max. Marks : 40

**PART – A
Short Answer**

Answer **all** questions :

1. Which is the insertion operator ? What is its use ?
2. What are abstract classes ?
3. Explain data binding.
4. Can you inherit a private member ? If so, how ?
5. What are default arguments ?
6. Comment on the purpose of inheriting classes ?

(6×1=6)

**PART – B
Short Essay**

Answer **any six** questions :

7. Compare procedure oriented programming with object oriented programming.
8. What are the different File Modes ?
9. Write any four rules of overloading operators.
10. What is a copy constructor ? Explain.

K20U 1815



11. Can you make an outside function inline ? How ?
12. List two operators that cannot be overloaded.
13. Mention two methods by which objects are initialised.
14. Differentiate call by value and call by reference.

(6×2=12)

PART – C

Essay

Answer **any four** questions :

15. Explain operator overloading. Write a program to overload + to add two complex numbers.
16. Explain the three visibility modes.
17. What is destructor ? Explain with an example.
18. Explain the output manipulators : setw(), setprecision(), setfill().
19. Write a program to implement memory allocation using new.
20. Write a program to demonstrate multiple inheritance.

(4×3=12)

PART – D

Long Essay

Answer **any 2** questions :

21. Explain any five OOP concepts.
22. Write a program to add two time objects using friend functions.
23. Explain the File handling operations in C++.
24. Explain virtual functions with appropriate example.

(2×5=10)
