



K20U 0444

Reg. No. :

Name :



II Semester B.C.A. Degree (CBCSS (OBE) – Regular) Examination, April 2020
(2019 Admission)

Core Course

2B03BCA : OBJECT ORIENTED PROGRAMMING USING C++

Time : 3 Hours

Max. Marks : 40

PART – A

Answer **all** questions.

1. What are keywords ? Give an example.
2. What is an inline function ?
3. Explain operator overloading.
4. What is an abstract class ?
5. When is a class defined as a virtual base class ?
6. What is protected visibility ?

(6×1=6)

PART – B

Answer **any six** questions.

7. Compare OOP with procedure oriented programming.
8. What is reference variable ? Illustrate.
9. Explain two memory management operators.
10. What are private member functions ? How are they called ?
11. What is a copy constructor ?
12. What do you need some functions to be 'friendly' to each other ?
13. Demonstrate single inheritance.
14. Explain write() and read() functions.

(6×2=12)

P.T.O.



PART – C

Answer **any four** questions.

15. Explain the rules for operator overloading.
16. Explain static member functions.
17. Explain "this" pointer with an example.
18. Explain seekg() and seekp().
19. What are stream classes ? Explain.
20. Explain two functions – get() and put() with syntax.

(4×3=12)

PART – D

Answer **any two** questions.

21. Create a class student to store regno and name of 50 students. Also write code to perform search on the array of objects using regno.
22. Write a C++ program to demonstrate hierarchical inheritance.
23. Explain the control structures of C++.
24. Explain class to basic type conversion.

(2×5=10)