

BCA DEGREE END SEMESTER EXAMINATION MARCH 2017**SEMESTER – 2: BACHELOR OF COMPUTER APPLICATION (BCA) (CORE COURSE)****COURSE: 16U2CRBCA5 –: OBJECT ORIENTED PROGRAMMING WITH C++***(For Regular - 2016 admission)*

Time: Three Hours

Max. Marks: 75

PART AAnswer **all** questions

1. What is conditional operator?
2. Explain enumerated data types
3. What is pure virtual function?
4. What is encapsulation?
5. List the operators that may not be used in operator overloading.
6. What is the difference between pre increment and post increment operators?
7. What is this pointer?
8. What is a manipulator?
9. What is a destructor?
10. What is stream?

(1 x 10 = 10)

PART BAnswer **any eight** questions

11. Explain class and object
12. What is inline function explain
13. Differentiate between private and protected modes?
14. Explain array of objects.
15. What is static members and static member function?
16. What do you mean by new and delete operators? Explain with examples.
17. What is an abstract class? Explain with an example
18. What is a friend function? Explain with an example
19. List out the different reasons that cause exceptions?
20. Differentiate between entry controlled loop and exit control loop

(2 x 8 = 16)

PART CAnswer **any five** questions

21. What are the features of object oriented programming?
22. Write a c++ program to add to complex numbers using operator overloading
23. What is function overloading? Explain with examples.

24. What is a template? Write a template program to add different generic data types.
25. What are command line arguments? Explain with an example
26. What is exception handling? Explain.
27. What is pointer object? Explain pointers with array of objects. (5 x 5 = 25)

PART D

Answer **any two** questions

28. Explain different types of constructors with examples.
29. Explain how files can be handled in c++. Explain various file opening modes and file pointers.
30. Explain Inheritance? Differentiate between different levels of Inheritance with an example program?
31. How polymorphism can be achieved in c++? Explain different types of binding. (12 x 2 = 24)
