17U242 (Pages: 2) Name………………..………

Reg. No………..…………

SECOND SEMESTER B.C.A. DEGREE EXAMINATION, APRIL 2018
(Supplementary/Improvement)

(CUCBCSS – UG)

CC15U BCA2 B02 – OBJECT ORIENTED PROGRAMMING WITH C^{++}

(Core Course: Computer Application)

(2015, 2016 Admissions)

Time: Three Hours   Maximum: 80 Marks

PART A
Answer *all* questions. Each question carries 1 mark.

1. The wrapping up of data and member functions together is called _____

2. How many types of polymorphisms are supported by C^{++} ?

3. cout stands for _____

4. Evaluate !(1 && !(0 || 1)).

5. Destructor has the same name as constructor and it is preceded by _____

6. What is a reference variable in C^{++}?

7. What is a friend function?

8. Define copy constructor.

9. What is the role of protected access specifier in C^{++}?

10. What is a function template?

(10 x 1=10 Marks)

PART B
Answer *all* questions. Each question carries 2 marks.

11. Explain the use of *this* pointer using a suitable example.

12. Write short note on C^{++} storage class.

13. Explain any two methods of passing arrays to functions.

14. What is a virtual function? Give an application of it.

15. What are the operators used for dynamic memory management?

(5 x 2 = 10 Marks)

PART C
Answer any *five* questions. Each question carries 4 marks.

16. What are the differences between pointers and reference variables?

17. Explain various operators in C^{++} with suitable examples.

18. What is the advantage of abstract class? Give an example.

19. Differentiate between structure and class.

20. Write any C^{++} program to explain the concept of parameterized constructor.

21. Differentiate between ios::app and ios::in

22. What is the use of seekg() in file handling?

23. What do you mean by early binding and late binding?

(5 x 4 = 20 Marks)

PART D
Answer any *five* questions. Each question carries 8 marks.

24. What are the major differences between Object Oriented Programming and Procedural Programming? Explain various features of Object Oriented Programming?

25. Explain various decision making and looping statements in C^{++} with suitable examples?

26. What do you mean by inheritance? Explain in detail, different types of inheritance.

27. Explain operator overloading with suitable example. Give the list of operators which can be as well as cannot be overloaded.

28. What do you mean by polymorphism? Explain different types of polymorphism.

29. What are exceptions? How these exceptions are handled in C^{++}?

30. Write a C^{++} program to calculate the average marks scored in three subjects by three students. Use initialized and uninitialized arrays of objects.

31. Define the concept of iostreams provided in C^{++}? Explain in detail, stream class hierarchy.

(5 x 8 = 40 Marks)

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