

Reg. No. :		
Name .		

II Semester B.C.A. Degree (CBCSS – Reg./Supple./Imp.) Examination, May 2017 Core Course

2B03 BCA: OBJECT ORIENTED PROGRAMMING USING C++ (2014 Admn. Onwards)

Time: 3 Hours

1. One word answer:

Max. Marks: 40

SECTION - A

a)	The wrapping up of data and functions into a single unit is called	
b)	In C++, provides an alternative name for a previously defined variable.	
c)	The manipulator << endIn is equivalent to	
d)	In C++, the concept of provides a facility to call a function without specifying all its arguments.	
e)) If A represents a class, then the phrase A::* means	
f)	is a special member function which enables an object to initialize itself when it is created.	
g)	In C++, the mechanism of giving a special meaning to an existing operator is known as	
h)	To open an existing file for updating without losing its original contents, the file should be opened in mode. ($8\times\frac{1}{2}=4$)	

SECTION - B

Write short notes on any seven of the following questions.

- 2. Distinguish between dynamic binding and message passing.
- 3. List any two properties of static data members.
- 4. How new operator is different from malloc() function?

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- 5. Write the syntax to define an inline function outside to the class definition.
- 6. Write any two important characteristics of a constructor function.
- 7. What is containership?
- 8. How a static member function is different from an ordinary member function?
- 9. Write the syntax of an overloaded casting operator function.
- 10. Define an abstract class.
- 11. What is a stream? Name any two streams generally used for file I/O. (7×2=14)

SECTION - C

Answer any four of the following questions:

- Explain the merits of an OOP language compared to conventional programming languages.
- 13. Write a program in C++ to add two complex numbers using operator overloading.
- 14. Explain the use of private, public and protected access specifiers.
- Differentiate between constructor and destructor functions with respect to object oriented programming.
- 16. Write a C++ program to implement multiple inheritance.
- Write a function COUNT_TO() in C++ to count the presence of a word 'to' in a text file "NOTES.TXT". (4×3=12)

SECTION - D

Write an essay on any two of the following questions.

- Explain different types of inheritance with example.
- Write a C++ program to perform the following operations on a string class without using built-in string functions.
 - a) Reverse the string
 - b) Concatenate two strings.
- 20. Explain different types of type conversion.
- 21. Write short notes on:
 - a) Friend functions.
 - b) Significance of virtual base classes.

 $(2 \times 5 = 10)$