Reg. No. : ....

Name : ....

**II Semester B.Sc. Degree (CCSS – Reg./Supple./Improv.)
Examination, May 2014
COMPLEMENTARY COURSE IN COMPUTER SCIENCE
2C03 CSC : Programming in C++**

Time : 2 Hours   Max. Weightage : 21

SECTION – A

Answer **all** questions. Weightage for a bunch of **four** questions is **1**.

1. Object oriented programming allows reusability of classes by using
   a) data encapsulation   b) dynamic binding
   c) data abstraction   d) inheritance

2. C++ provides inline functions to facilitate reduce function call overhead, mainly for
   a) small functions   b) member functions
   c) large functions   d) all of the above

3. How do we comment a line of code in C++ ?
   a) Using // at the start of the line of code
   b) Using // at the end of the line of code
   c) Using << at the start of the line of code
   d) Using << at the start of the line of code

4. Which of the following arithmetic is allowed in pointers ?
   a) Multiplication   b) Division
   c) Addition   d) None of the above

5. The private data of any class is accessed by
   a) only public member function   b) only private member functions
   c) both a) and b)   d) none of the above

6. The operator << is known as _____ operator.
   a) insertion operator
   b) extraction operator
   c) member operator
   d) address operator

7. To add data at the end of the file, the file must be opened in
   a) read mode
   b) write mode
   c) append mode
   d) both b) and c)

8. The write ( ) function writes
   a) single character
   b) object
   c) string
   d) none of the above   (2×1=2)

SECTION – B

Answer **any five** questions. Weightage **one each**.

9. What are the fundamental data types in C++ ?

10. Explain the purpose of default block in a switch-case statement.

11. Explain the use of scope resolution operator in C++

12. Give syntax of do-while loop.

13. Explain the use of new operator.

14. Name different forms of inheritance.

15. Give the syntax of cin and cout.

16. What is a constructor ?   (5×1=5)

SECTION – C

Answer **any 5** questions. Weightage **two each**.

17. Explain the syntax of while loop with a suitable example.

18. Explain briefly the concept of data encapsulation.

19. Explain inline function with a suitable example.

20. What is a structure ? Explain structure definition with a suitable example.

21. Describe various classes available for file operations.

22. What is meant by containership ? Explain with a suitable example.

23. Explain various manipulators available in C++.

24. Write a program to negate the elements of an array using overloaded operator.

$$(5 \times 2 = 10)$$

SECTION – D

Answer **any one** question. Weightage **4** :

25. What is inheritance ? Explain its various forms using suitable examples.

26. a) With suitable example, discuss different techniques to pass arguments to a function.

    b) Write a program to find the area of rectangle, triangle and circle using function overloading.

$$(1 \times 4 = 4)$$

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