



M 949

Reg. No. : .....

Name : .....



**II Semester B.A./B.Sc./B.Com./B.B.A./B.B.A.T.T.M./B.B.M./B.C.A./B.S.W.  
Degree (CCSS – Reg./Supple./Improv.) Examination, April 2012  
COMPLEMENTARY COURSE IN COMPUTER SCIENCE  
2C03 CSC : Programming in C++**

Time: 3 Hours

Max. Weightage : 21

**SECTION – A**

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

- I. 1) The default access level assigned to members of a class is \_\_\_\_\_
  - a) Private
  - b) Public
  - c) Protected
  - d) Needs to be assigned
- 2) Inline functions are invoked at the time of
  - a) Run time
  - b) Compile time
  - c) Depends on how it is invoked
  - d) Both b) and c) above
- 3) The new operator
  - a) allocate memory
  - b) releases memory
  - c) both a) and b)
  - d) none of the above
- 4) The main() function returns an integer value to
  - a) main () function
  - b) compiler
  - c) operating system
  - d) none of the above
- 5) Which one of the following operator cannot be overloaded ?
  - a) & operator
  - b) plus operator (+)
  - c) dot operator(.)
  - d) ++ operator

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- II. 6) A \_\_\_\_\_ provides an alias for a previous define variable.
- a) reference variable                      b) pointer  
c) type cast                                  d) none of the above
- 7) Which of the following about inline function is false ?
- a) it should not be recursive  
b) it should not contain static variables  
c) the function main() cannot work as inline  
d) none of these
- 8) Composition of objects in a class is known as
- a) polymorphism                              b) inheritance  
c) delegation                                  d) none of the above                      (2×1=2)

#### SECTION – B

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

- 9) What is the use of keyword void ?  
10) Give the syntax of for statement ?  
11) What is an object ?  
12) Define base class and derived class.  
13) What is a constructor ?  
14) Explain the use of protected keyword.  
15) What is a stream ?  
16) Explain the use of setfill().                      (5×1=5)

#### SECTION – C

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

- 17) Explain the syntax of switch statement with a suitable example.  
18) What is a structure ? Discuss the similarity and differences of a structure as compared to a class.



- 19) Explain friend function with a suitable example.
- 20) Explain the multilevel inheritance with suitable example.
- 21) What is a file mode ? Describe the various file mode options available in C++.
- 22) Write a program to add two complex number using overloaded + operator.
- 23) Explain briefly the concept of data abstraction.
- 24) Explain file pointers. Explain various file pointer manipulators. (5×2=10)

SECTION – D

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

- 25) Write a short note on :
  - a) Object oriented programming
  - b) Virtual functions
  - c) Dynamic memory allocation.
- 26) Write a class to represent a square matrix which contains following functions :
  - a) to read matrix
  - b) to find sum of diagonal elements
  - c) to print matrix. (1×4=4)