Reg. No. : ....

Name : ....

III Semester B.Sc. Degree (CCSS-Reg./Supple./Imp.) Examination, November 2014
CORE COURSE IN COMPUTER SCIENCE
3B03 CSC : Programming in C++

Time : 3 Hours

Max. Weightage : 21

SECTION – A

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

1. Mechanism of deriving a class from another derived class is known as _____
   a) Polymorphism
   b) Single inheritance
   c) Multilevel inheritance
   d) Multiple inheritance

2. Which one of the following operator cannot be overloaded ?
   a) + = operator
   b) = = operator
   c) ? : operator
   d) * operator

3. The break statement causes an exit.
   a) From the innermost loop only
   b) Only from the innermost switch
   c) From all loops and switches
   d) From the innermost loop or switch

4. When a class is declared inside the function, it is called as _____
   a) Abstract class
   b) Global class
   c) Nested class
   d) Local class

5. Runtime Polymorphism is achieved by _____

    a) Friend function   b) Virtual function

    c) In-line functions   d) Function overloading

6. In a protected derivation, visibility modes will change as follows :

    a) Private, public and protected become protected

    b) Only public becomes protected

    c) Public and protected become protected

    d) Only private becomes protected

7. Which of the following about constructor is false ?

    a) It can be executed implicitly

    b) It can be overloaded

    c) It can return any value

    d) None of these

8. Usually a pure virtual function

    a) Has complete function body

    b) Is defined only in base class

    c) Will be called only to delete an object

    d) Is defined only in derived class

SECTION – B

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

  9. What is the use of in-line function ?

10. Give the syntax of do-while statement.

11. What is class ?

12. Explain the use of delete operator.

13. List the basic data types in C++.

14. Define destructor.

15. List various file stream classes.

16. Define Abstract class.

SECTION – C

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

17. Explain different types of polymorphism in C++ with examples.

18. Explain any two looping statements in C++ with examples.

19. What are friend functions ? Explain their characteristics with a suitable example.

20. Explain the hierarchical inheritance with suitable example.

21. What is the difference between a virtual function and a pure virtual function ? Explain.

22. List and explain various types of constructors.

23. Write a program to concatenate two strings by overloading + = operator.

24. Explain file pointers and their manipulators.　　　　　　　　　　　(5×2=10)

SECTION – D

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

25. Write a short note on :
    a) Parameter passing techniques
    b) I/O stream classes

26. Discuss in detail about the basic concepts of object oriented programming.
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