M 6546

Reg. No. : .....

Name : .....

II Semester B.C.A. Degree (CCSS – Reg./Supple./Improv.) Examination, May 2014

CORE COURSE

2B04 BCA : Object Oriented Programming and C++

Time : 3 Hours Max. Weightage : 21

SECTION – A

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

1. The mechanism of packing of data and functions into a single component is known as _____
   a) Delegation b) Data encapsulation
   c) Data abstraction d) Inheritance

2. The loop statement terminated by semi colon is _____
   a) While loops b) For loop
   c) Do while loop d) All of the above

3. 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

4. A class declared inside a function is known as _____
   a) Abstract class b) Friend class
   c) Local class d) None of the above

P.T.O.

5. The constructor without arguments is known as _____
   a) Copy constructor
   b) Parameterized constructor
   c) Default constructor
   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. The file manipulator ios::app sets pointer
   a) To end of file
   b) To beginning of file
   c) In the middle of file
   d) None of the above

8. The put ( ) function writes _____
   a) Object b) Single character
   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. What is the difference between a while and do-while loop ?

11. Explain the function prototype.

12. What is static data member ?

13. What is use of this pointer ?

14. Explain the use of protected access specifier.

15. Give the syntax of cin and cout.

16. Describe the syntax of open ( ) function. **(5×1=5)**

SECTION – C

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

17. Explain various forms of if statements with suitable examples.
18. What are default arguments ? Explain with suitable example.
19. Explain various methods for defining member functions.
20. Explain various types of constructors.
21. Describe hierarchical and hybrid inheritance with examples.
22. What is pure virtual function ? Explain the difference between pure virtual functions and virtual function.
23. Describe various stream classes available for file operations.
24. Explain user defined manipulators with an example. **(5×2=10)**

SECTION – D

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

25. a) Explain multiple inheritance.

    b) Define a class student with name, reg.no, date of birth and name of college as member data and functions to get and display these details. Design another class test with subjects of study and grade for each subject as member data and corresponding input and output functions. Derive a class result from both student and test classes and print the result of each student with relevant information.

26. Explain :

    a) Different techniques to pass arguments to a function.

    b) Friend functions. **(1×4=4)**
