2013

Time: 3 hours Full Marks: 80

Candidates are required to give their answers in their own words as far as practicable

The questions are equal value.

Answer any **five** questions in which
Q.No. 1 is compulsory.

- 1. Indicate the correct answer of the following:
 - (a) The keyword 'operator' is used to overload an
 - (i) Operator
 - (ii) Function
 - (iii) Class
 - (iv) None of the above
 - (b) The relationship exists between a base class and a derived class is known as:
 - (i) Kind of relationship
 - (ii) has a relationship
 - (iii) is a relationship
 - (iv) None of the above
 - (c) The ambiguity of members normally occurs in
 - (i) Single inheritance
 - (ii) Multilevel inheritance
 - (iii) Multiple inheritance
 - (iv) None of the above
 - (d) Dynamic binding is done using the keyword
 - (i) Virtual
 - (ii) Inline
 - (iii) Static
 - (iv) Void
 - (e) When a base class is not used for obejet declaration it is classes as:
 - (i) Abstract class

- (ii) Container class
- (iii) Concrete class
- (iv) None of above
- (f) The write () function writes-
 - (i) Single character
 - (ii) Object
 - (iii) String
 - (iv) None of the above
- (g) Function template can accept-
 - (i) only one parameter
 - (ii) only two parameter
 - (iii) any number of parameter
 - (iv) None of the above
- (h) Exception is generated in block
 - (i) try
 - (ii) catch
 - (iii) throw
 - (iv) none of the above
- 2. Explain the structure of a C++ program with suitable example.
- 3. What is function overloading? What are the rules for defining overloaded functions? Write a program to calculate area of a circle & rectangle using overloaded functions.
- 4. What are constructors and destructors? Explain the characteristics of constructor and destructors.
- 5. What do you mean by memory management in C++? Discuss the use of 'new' and 'delete' operators with suitable example.
- 6. How are friend functions used to carry out overloading of operators? In which situations are they helpful?
- 7. What do you mean by inheritance? Describe the various types of inheritance with examples.
- 8. What do you mean by virtual function and virtual classes? Where do you use virtual function? Where do you use virtual functions? Explain with example.
- 9. Write a program to explain, the concept of multiple catch statements.
- 10. Write a program to create a template to find the maximum value stored in an array.