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10CS36

**Third Semester B.E. Degree Examination, Dec.2013/Jan.2014**

**Object Oriented Programming with C++**

Time: 3 hrs.

Max. Marks:100

**Note: Answer FIVE full questions, selecting  
at least TWO questions from each part.**

**PART – A**

1.
  - a. Explain various features of object oriented programming. (08 Marks)
  - b. What is inline function? Explain with an example. Mention its advantages. (06 Marks)
  - c. What is function overloading? Write a program to swap two integer and two float number using function overloading. (06 Marks)
  
2.
  - a. What is class? Write a program to create a class called employee which consists name, desg, ecode and salary as a data member and read, write as a function member, using this class to read and print 10 employee information. (08 Marks)
  - b. What is constructor? Mention its types. Explain parameterized constructor with an example. (06 Marks)
  - c. Explain three access specifiers. (06 Marks)
  
3.
  - a. Why friend function is required? Write a program to add two complex number using friend function. (08 Marks)
  - b. Explain generic function with an example. (06 Marks)
  - c. Write a program to overload ++ operator. (06 Marks)
  
4.
  - a. Mention types of inheritance. Explain multiple and multilevel inheritance with example. (08 Marks)
  - b. What is function overriding? Give an example. (06 Marks)
  - c. Write a program to illustrate protected members in base class inheritance. (06 Marks)

**PART – B**

5.
  - a. Explain the order of invocation of constructor and destructor with an example. (10 Marks)
  - b. Explain with an example virtual base class. (06 Marks)
  - c. Explain passing parameter to base class. (04 Marks)
  
6.
  - a. Difference between early binding and late binding.
  - b. What is virtual function? Explain with an example.
  - c. Explain the abstract class with an example.
  
7.
  - a. What are the flags that associated with the file operation? (04 Marks)
  - b. Explain the following functions:
    - i) setfill( )      ii) width( )      iii) precision( )      iv) setiosflags( )
 (08 Marks)
  - c. Mention the name of file movement pointer. Explain each. (06 Marks)
  
8.
  - a. Explain C++ exception handling function with example. (08 Marks)
  - b. What is vector? Explain function of a vector. (06 Marks)
  - c. Write a program to create a list and sorting the elements of the list. (06 Marks)