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MCA
PCS 2002

2ND SEMESTER EXAMINATION - 2006

OBJECT ORIENTED PROGRAMMING
USING C++

Full Marks - 70

Time : 3 Hours

*The figures in the right hand margin indicate
full marks for the questions.*

*Answer questions No. 1 which is compulsory
and any five from the rest.*

1. Answer the following questions : 2×10
- (i) Define a way other than using the keyword inline to make a function inline.
 - (ii) Write the output of the following block of program

P.T.O.

```

class some{
public:
~some()
{
cout<<"This is in destructor"<<endl;
}
};
void main()
{
some s;
s.~some();
}

```

(iii) Justify the use of virtual constructors and destructors in C++.

(iv) Inheritance is also known as polymorphism relationship. Containership as _____ relationship.

(v) Differentiate between a template class and class template.

(vi) Name the operators that cannot be overloaded.

(vii) What is mean by default argument ? Can you change the value of default argument.

(viii) Base class has some virtual method and derived class has a method with the same name. If we initialize the base class pointer with derived object, calling of that virtual method will result in which method being called ?

(ix) Bootch algorithm is used for _____.

(x) _____ is the parameter that is added to every non-static member function when it is called.

2. Differentiate the following with proper examples.

2.5×4

(i) message and method.

(ii) function overloading and function overriding.

(iii) macro function and inline function.

(iv) use of inheritance and friends.

3. ✓ Define the case of ambiguity. When it can found ?
How it can be avoided ? Discuss with proper
examples. 10
4. ✓ Using the multiple constructor, write a program
to calculate the area of the triangle and rectangle.
10
5. ✓ Discuss the different types of polymorphism with
proper example. In which condition this pointer
can be used ? 10
6. ✓ Write a program using class with constructor and
concept of exception handling to addition of two
vectors. You may choose any data as per your
assumption. 10
7. ✓ Write a program to calculate the 2nd lowest values
of an array using template class. 10
8. Write short notes on : 5×2
- (i) Object Oriented Analysis and Design
 - (ii) Static Members.

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Point ?
↓
overloading
|
virtual
K. Anshu Rajput - C
S. P.