## National University of Computer and Emerging Sciences, Lahore Campus



OOP Course: Course Code: | CS217 Program: **BS(Computer Science)** Semester: Spring 2023 **Duration:** 10 Minutes **Total Marks:** 10 Paper Date: 14-March-2023 1 Page(s): Section: BCS-2H Roll No. Exam: Quiz-2 Name:

Instruction/Notes:

 Negative marks will be awarded for any suspicious activity found during/in the quiz.

**Question:** For the code segment given below, determine output/exception. In case of exception highlight the exact line that will throw the exception.

```
#include<iostream>
                                                            ~A()
using namespace std;
                                                            {
                                                                    if(a != 0){
class A
                                                                           cout<<"~A() Called for
                                                     "<<*a<<".\n";
private:
                                                                           delete a;
       int* a;
public:
       A(int _a = 0)
                                                            void SetA(int _a)
              cout<<"A() Called for
                                                                    *a = _a;
"<< a<<".\n";
              a = new int;
                                                     };
               *a=_a;
                                                     void main()
       void Print()
                                                            A obj1(5);
              cout<<"a =\t"<<*a<<endl;</pre>
                                                                    A obj2 = obj1;
                                                                    obj2.SetA(10);
       A(const A& rhs)
                                                                    obj2.Print();
              cout<<"Copy Constructor</pre>
                                                            obj1.Print();
Called.\n";
                                                     }
       void operator=(const A& rhs)
        cout<<"Assignment Operator Callsed.\n";</pre>
```

**Output/Error**: