ENG236 Computer Programming Solution to Quiz 8 (8 November 2009)

Instructions: open book, 15 minutes

- 1. (80 marks) Consider the following C++ program and fill in the following missing elements:
 - a. Implement the public class function SetCnt() which sets the value of the integer pointed to by count.
 - b. In main(), set the value of the integer to 2.
 - c. In main(), print out the value of the integer to the screen.
 - d. In main(), release all the memory allocated in the heap before returning 0.

```
#include <iostream>
using namespace std;
class Object
{
public:
   Object();
   ~Object();
   int GetCnt() const {return *count;}
   void SetCnt(int ctr) {*count = ctr;}
private:
   int *count;
};
Object::Object()
{
     count = new int(1);
}
Object::~Object()
{
     delete count;
}
int main()
{
      Object *ptr = new Object;
      ptr->SetCnt(2);
      cout << ptr->GetCnt() << endl;</pre>
      delete ptr;
      return 0;
}
```