## Quiz 2, INFSCI 0020 Program Design and Software Tools, Feb 15, 2005

Names:	es: Total Points	/50
	Assuming that int a has a value of 3 and that integer array b has is the correct way to assign the value of the sum of 3 and the third elelement of the array?  (a) b[a + 1] = b[a] + 3;  (b) b[a + 1] = b[a - 1] + 3;  (c) b[a] + 1 = b[a + 3];  (d) b[a + 2] = b[a] + 3;	
	ANS: (b)	
2.	Three of the following expressions have the same value. Which of the is different from the others?  (a) *&Ptr (b) &*Ptr (c) *Ptr (d) Ptr	following's value
	ANS: (c)	
	<ul> <li>Given that k is an integer array starting at location 2000, kPtr is a point integer is stored in 4 bytes of memory, what location does kPtr + 3 pc (a) 2003</li> <li>(b) 2006</li> <li>(c) 2012</li> <li>(d) 2024</li> </ul>	
	ANS: (c)	
4.	<ul> <li>(*max)(num1, num2, num3);</li> <li>(a) is the header for function max</li> <li>(b) is a call to the function pointed to by max</li> <li>(c) is the prototype for function max</li> <li>(d) is part of a declaration of a pointer to the function max</li> </ul>	
	ANS: (b)	
5.	<ul> <li>Object-oriented programming primarily focuses on</li> <li>(a) classes.</li> <li>(b) functions.</li> <li>(c) variables.</li> <li>(d) constants.</li> </ul>	

- 6. Classes do not have the property of
  - (a) encapsulating data.
  - (b) information hiding.
  - (c) containing both data and functions.
  - (d) usually knowing how other classes are implemented.
- 7. A class may contain multiple constructors if
  - (a) they have different names.
  - (b) they have different argument lists.
  - (c) they have the same argument list.
  - (d) they have different return types.

ANS: (b)

- 8. A default constructor
  - (a) is a constructor with all default arguments
  - (b) is the constructor generated by the compiler when one is not provided by the programmer
  - (c) does not perform any initialization
  - (d) both (b) and (c)

ANS: (d)

- 9. If the line friend class A; appears in class B, and friend class B; appears in class C then
  - (a) class A is a friend of class C.
  - (b) class A can access private variables of class B.
  - (c) class C can call class A's private member functions.
  - (d) class B can access class A's private variables.

ANS: (b)

- 10. If the functions a(),b() and c() all return references to an object **Test** (using the **this** pointer) and function d() is declared **void**, which of the following statements has correct syntax?
  - (a) Test.a().b().d();
  - (b) a().b().Test;
  - (c) Test.d().c();
  - (d) Test.a().Test.d();

ANS: (a)

- 11. **static** member functions:
  - (a) can use the **this** pointer.
  - (b) can only access other static member functions and static variables.
  - (c) cannot be called until their class is instantiated.
  - (d) can be declared **const** as well.

ANS: (b)