1. What does the output look like? ________________  
int main()
{
    int a = 1;
    printf(“ a is %d”, ++a)
    return 0;
}

2. The sizeof operator returns: (D)  
a. the length of a data type  
b. the length of a variable  
c. the number of bytes reserved for a structure  
d. all of the above

3. What are the contents of x and y after this code executes?  
x = ________  y = ________  
int x=1, y=2, *ip;  
y = 1 and x = 0  
ip = &x;  
y = *ip;  
*ip = 0;

4. How many values can be returned by a function? (C)  
a. always and exactly 1  
b. at least one  
c. 0 or 1  
d. it depends on the function

5. The first subscript of an array is zero because: (C)  
a. there is no address offset to the first element of the array  
b. there is no difference between the address of array and the address of array[0]  
c. both a and b are true  
d. both a and b are not true

6. Given the following two declarations, determine which statement is true: (B)  
int array[10] = {1, 2, 3, 4, 5, 6, 7, 8, 9, 10};  
int *ptr = array;  
a. *(ptr + 1) will return the value in a[0]  
b. *(ptr + 1) will return the value in a[1]  
c. *ptr + 1 will return the value in a[0]  
d. *ptr + 1 will return the value in a[1]

TRUE/FALSE (1/2 pt each)  
_______ the tag, member list and variable list are all optional but cannot all be omitted (T)  
_______ all structures of the same type must be created in a single declaration (F)  
_______ an incomplete declaration has only a tag (T)  
_______ every program must have a main function in it (T)
1. What does the output look like? ________________ a is 3
   int main()
   {
      int a = 3;
      printf ("a is %d", a++)
      return 0;
   }

2. What are the contents of x and y after this code executes?
   x = ________  y = ________
   int x=2, y=1, *ip;
   y = 2 & x = 1
   ip = &x;
   y = *ip;
   *ip = 1;

3. ________ How many values can be returned by a function? (A)
   a. 0 or 1
   b. at least one
   c. always and exactly 1
   d. it depends on the function

4. ________ The first subscript of an array is zero because: (C)
   a. there is no difference between the address of array and the address of array[0]
   b. there is no address offset to the first element of the array
   c. both a and b are true
   d. both a and b are not true

5. ________ The sizeof operator returns: (D)
   a. the length of a data type
   b. the length of a variable
   c. the number of bytes reserved for a structure
   d. all of the above

6. ________ Given the following two declarations, determine which statement is true: (D)
   int array[10] = {1, 2, 3, 4, 5, 6, 7, 8, 9, 10};
   int *ptr = array;
   a. *ptr + 1 will return the value in a[0]
   b. *ptr + 1 will return the value in a[1]
   c. *(ptr + 1) will return the value in a[0]
   d. *(ptr + 1) will return the value in a[1]

   TRUE/FALSE (1/2 pt each)
   ________ an incomplete declaration has only a tag (T)
   ________ every program must have a main function in it (T)
   ________ all structures of the same type must be created in a single declaration (F)
   ________ the tag, member list and variable list are all optional but cannot all be omitted (T)