Math 201 - Test 3a

Circle the best answer for each problem. Each problem is worth one (1) point.

- 1. Which one of the following is used to declare an input file stream object?
 - (a) ofstream
 - (b) ifstream
 - (c) istream
 - (d) instream
- 2. Suppose a function has a formal argument x of type double. If x is to be passed by reference, which one of the following is the correct syntax for including x in the function header?
 - (a) double x
 - (b) double *x
 - (c) double ~x
 - (d) double &x
- 3. Suppose the 2-D array x is declared and initialized as follows:

float
$$x[3][2] = \{ 6.3, 7.1, -8, 5.7, 3.14 \};$$

Which one of the following is true?

- (a) x[3][2] = 0.0
- (b) x[2][1] = -8.0
- (c) x[1][1] = 5.7
- (d) x[2][1] is not defined
- 4. True or False: When passing arrays as function arguments, arrays are automatically passed by reference.
 - (a) True
 - (b) False
 - (c) 2.71828
 - (d) None of the above
- 5. A string is a one-dimensional array of type char that is terminated by what character?
 - (a) '\n'
 - (b) '\t'
 - (c) '\a'
 - (d) '\0'

- 6. Which one of the following statements about closing files is FALSE?
 - (a) The output file stream object my_file can be closed by using my_file.close().
 - (b) Open files are closed automatically at program termination.
 - (c) When an output stream object goes out of scope, the file is automatically closed.
 - (d) A program cannot successfully terminate unless all files have been explicitly closed.
- 7. True or False: In the body of a function that has been passed a function f as an argument, f must be dereferenced by using (*f) each time it is called.
 - (a) True
 - (b) False
 - (c) Tuesday
 - (d) x = 13.9
- 8. If we want the actual arguments of a function to be manipulated, the arguments must be passed by ______.
 - (a) reference
 - (b) value
 - (c) instantiation
 - (d) characterization
- 9. Suppose the function **f** takes a double and returns a float. Which one of the following is the correct header for a function that has **f** as a argument?
 - (a) double func(float (*f)(double x), float a, float b);
 - (b) double func(float f(double x), float a, float b);
 - (c) double func(float (&f)(double x), float a, float b);
 - (d) double func(double (*f)(float x), float a, float b);
- 10. The string Hello world is to be stored in a character array. What size character array is required?
 - (a) 10 or smaller
 - (b) 11
 - (c) 12 or bigger
 - (d) None of the above

11.	Is it	possible for a constant to be passed by reference?
	(a)	Yes.
	(b)	No.
	(c)	It depends on the context.
	(d)	Only on Fridays.
12.		en referencing an element of a one-dimensional array, $*(\&a[0]+i)$ means the same
	as _	
	` ′	a[i]
	` '	a[0]
	(c)	
	(d)	None of the above
13.	An array is declared as follows. How many elements does it have?	
int x[6][3][4];		
	(a)	13
	(b)	
	(c)	
	(d)	140
14.	Whi	ch one of the following could be used to test for end-of-file from keyboard input?
	(a)	eof.cin()
	(b)	<pre>input.eof()</pre>
	(c)	<pre>cout.eof()</pre>
	(d)	<pre>cin.eof()</pre>
15.	How	do we pass an array as a function argument?
		We pass the base element.
	` '	We pass the address of the base element.
	` '	We pass the address of the last element. We pass the address of the last element.
	` '	We pass the last element.
	(4)	F