Name: KEY **Id#**

ICS 103, Term 132

Computer Programming in C

Quiz# 1

Date: Tuesday, Feb. 11, 2014

Q1. Fill the blank in each of the following:

(1) Hard disk is an example of secondary memory.

(2) The set of instructions that can be executed by the CPU represented in binary format is called machine language while when represented using symbolic codes it is called assembly language.

(3) The main advantages of programming in High level languages like C are that high level languages are portable and it is easier to write and maintain.

(4) A compiler turns the Source File into an Object File while a linker turns the Object File into an Executable.

(5) Software development process is composed of the following steps:

1. Specify problem requirements
2. Analyze the problem
3. Design the algorithm to solve the problem
4. Implement the algorithm
5. Test and verify the completed program
6. Maintain and update the program

(6) To read an integer and a real number and store them in variables x and y respectively, the following statement is used:

scanf("%d%lf", &x, &y);

(7) Anything between the symbols /* and */ will be considered a comment, even if they span multiple lines.

Q2. Find the values of the following expressions.

Expression	Value
(double) (7/2)	3.0
40/3/2.0	6.5
(int)6.6/(double)3	2.0
5+7/2*2.0	11.0
int x= 5.924;	x = 5
double y= 10/4;	y = 2.0

Q3. In the grid below, assume that each square represents a space and each row represents a line on the screen. Show how the output of the following program will be displayed.

```
#include <stdio.h>
int main(void) {
     double i=99.869;
     int j=-124;
     printf("%6.0f%8d\n",i,j);
     printf("%5.1f%9.5f\n",i,i);
     return 0;
}
```

			1	0	0					-	1	2	4					
	9	9	.	9		9	9	.	8	6	9	0	0					