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) <u>RAM</u> is volatile memory that can be accessed in any order (as opposed to sequential access memory).

(2) <u>Flowchart</u> is a diagram that shows the step-by-step execution of a program.

(3) Part of the Software development, analyzing the problem <u>involves identifying the problem's inputs, outputs, and additional requirements.</u>

(4) In C language, the data type **<u>int</u>** is used for representing integers, the data type **<u>double</u>** is used for representing real numbers and the data type **<u>char</u>** is used for representing characters.

(5) To read a real number and store it in variable **score**, the following statement is used:

    <u>scanf("%lf", &score);</u>

(6) Anything after the symbol <u>//</u> and before the end of the line is considered a comment.

(7) Compilers translate <u>high-level language into machine language</u>.

Q2. Find the values of the following expressions.

Expression	Value
(double) (23/3)	7.0
672/100%5	1
(double) 6 / (int) 2.5	3.0
14/4*4.0	12.0
int x= 1.8;	x = 1
double y= 8/3;	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.

```c
#include <stdio.h>
int main(void) {
    int i=-956;
    double j=99.517;
    printf("%7.0f %10.2f\n",j,j);
    printf("%3d %6d",i,i);
return 0;
}
```

				1	0	0					9	9	.	5	2			
−	9	5	6				−	9	5	6								