COMP 248 F2011 Test 1 Sample Solution

Question 1

    long big;

Question 2

    z = ((3 * x * x) + (4 * x * y) - (1 / 2 * x)) / 3

Question 3

(A)

Expression	Type	Value
(int) 34.6	integer	34
11 / (float) 2	float	5.5
8.0 + 3 % 2	double	9.0

(B)

Statements	Syntax error?	If no syntax error, value of a?
float a; a = (double) (10 % 2);	incompatible conversion	-
double a; a = 10 / 3;	no	3.0

int a = 2, b = 10;
int c = 5, d = 3;
d = d - b / c;
c = c * b % c;
a += (c + d);
	no	3

Question 4

    temp = c1;
    c1 = c2;
    c2 = c3;
    c3 = temp;

Question 5

(A)   init is 'M' but

        10.0/3 is
        10.0/3

(B)   v1: 3

         v2: 4 res: 10

Question 6

There is a syntax error on line: **25**

The line should be corrected to: **System.out.println("Average: " + average);**

There is a logical error on line: **19**

The line should be corrected to: **mark2 = keyboard.nextInt();**