**CSC 401**

**Midterm Exam Study Guide**

**Spring 2015**

**Exam: Tuesday Night’s In-Class: May 5th 5:45pm 2 Hours**

**Thursday Night’s In-Class: May 7th 5:45pm 2 Hours**

**Allowed: One-sided 8.5x11 inch crib sheet only**

Possible topics include up to (but not including) three-way decision statements (if-elif).

1. Show the results for each of the following:

a. 7 // 3

b. 9 % 4

c. 12 / 5

d. 3 \* 4 / 2

e. (2 + 3) \* (1 + 4)

f. 3 \*\* 2

g. 5 == 4

h. ‘hello’ + ‘this’

i. 2 \* ‘abc’

2. Write the code segment for each of the following:

a. Given s = ‘abcdefg’. Using s, print the letters:

a

ab

cde

g

b. Prompt the user to enter a sentence. Print the first letter of each word.

c. Prompt the user for three values. Put them into a list. Print the smallest of the three values.

d. Write a for loop that prints the even values from 0 to n.

e. Write a function that accepts one parameter – the radius. Compute and print the results of pi \* r ^ 2.

f. Write the function which is passed the string test1 and changes all occurrences of a to e, b to f, and c to g.

g. Write a function which is passed the filename ‘words.txt’, reads the file, and prints each word that starts with an ‘m’ or an ‘n’.

h. Write a function that accepts as a parameter a list of numeric values. The function should print only the negative values in the list.

i. Write a function that accepts as a parameter a list of numeric values. The function should return the largest value.

j. Write the code segment which uses a formatted print statement to print the following:

The time is hours: 3, minutes: 22, seconds: 41.

You are given the variables hours, minutes, and seconds.