## CSC108-Introduction to Computer Programming, winter2011

## Quiz 4 (15 minutes)

Name: $\qquad$ Student ID: $\qquad$
Mark:___10
(a) [5 marks] Define a Circle class. It should contain a float value called radius. Your class should contain an init method and methods to compute the circumference ( $2 \pi r$ ) and area $\left(\pi r^{2}\right)$ of the circle. (The constant $\pi$ is math. pi, if you import the math module). Please make sure that the indentation of your written solution is clear.
(b) [2 marks] What method would you add to your Circle class such that, if C is a Circle object with radius 1.5 , then typing print C gives the following output:

$$
\text { Circle with radius } 1.5
$$

Answer:
(c) [3 marks] Given your Circle class, write a fragment of Python code to do the following: - create a new Circle object with radius of 2.5 and assign to variable C1;

- print the circumference of C1;
- print the area of C1;
- create another Circle object with radius 3.5 and assign to variable C2;
- print the Boolean result indicating whether ten plus the area of C1 is greater than the area of C 2 .


## Answer:

