

University of Cape Town
Department of Computer Science

Computer Science CSC1010H

Class Test 3

Wednesday, 1 October 2014

Marks: 35	<ul style="list-style-type: none">• Approximate marks per question are shown in brackets• The use of calculators is permitted
Time: 40 minutes	

NAME:

Surname	Initials
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STUDENT NO:

 COURSE CODE:

This paper consists of 5 questions and 5 pages (including this cover page).

Mark Allocation							
Question	Marks	Internal	External	Question	Marks	Internal	External
1	3			5	5		
2	12						
3	5						
4	10						
Total				Total			
Grand Total							
						Final Mark	
Internal Examiner:				External Examiner:			

Question 4. [10 marks]

- a) Create a class called Triangle which has object variables for sides a, b and c. The Triangle class should have a constructor and a string conversion method. It should also have a method which returns the perimeter of the triangle. [7]

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- b) Using the class defined above, write a short code fragment which creates a triangle object with sides 3, 4 and 5, prints out the object perimeter and prints out the object itself. [3]

Question 5. [5 marks]

- a) Consider the following written question, and do a task analysis on the question.

Considering Python loops, contrast for loops and while loops, specifically looking at keywords and their use, i.e. when to use which loop. [3]

- b) In the formal writing process, indicate why referencing is important? [1]

Indicate if the following statements are true or false:

- c) In academic writing, personal pronouns like “I”, “me” and “we” are frequently used. [1]
