

## Test 2

NAME:\_\_\_\_\_

STUDENT NO:\_\_\_\_\_

1. (50%) What is  $\lambda$ -calculus? Why is it important in the development of programming languages?
2. (50%) Haskell is a *lazy, non-strict, polymorphic* programming language. Explain what these mean. It supports a feature called *List comprehension*. Explain what this is and how it relates to **map** and **filter** higher order functions.