Do not turn this page until you have received the signal to start.
In the meantime, please read the instructions below carefully.

This Final Examination paper consists of 8 questions on 22 pages (including this one), printed on both sides of the paper. When you receive the signal to start, please make sure that your copy of the paper is complete and fill in your name and student number above.

Answer each question directly on this paper, in the space provided, and use one of the “blank” pages (at the end of the paper) for rough work. If you need more space for one of your solutions, use a “blank” page and indicate clearly the part of your work that should be marked.

In your answers, you may use any of the Python built-in functions and standard modules listed on the accompanying “Python 3 Cheat Sheet.” You must write your own code for everything else.

Comments and docstrings are not required, except where we ask for them explicitly. However, they may help us grade your answers and may be worth part marks if you cannot write a complete answer. Helper functions/methods are allowed, except where we explicitly forbid them.

If you are unable to answer a question (or part of a question), remember that you will get 10% of the marks for any solution that you leave entirely blank (or where you cross off everything you wrote to make it clear that it should not be marked).

Marking Guide

# 1: _____/10
# 2: _____/10
# 3: _____/10
# 4: _____/10
# 5: _____/10
# 6: _____/10
# 7: _____/10
# 8: _____/10
Bonus
Marks: _____/ 6
TOTAL: _____/80

Page 1 of 22

Good Luck!