BIRKBECK

(University of London)

MSc EXAMINATION FOR INTERNAL STUDENTS

MSc Computer Science MSc Data Science

Department of Computer Science and Information Systems

Principles of Programming I

BUCI033S7

DATE OF EXAMINATION: Monday, 30th April 2018
DURATION OF PAPER: One Hour

Practical — Mock Paper

RUBRIC:

- 1. Candidates should attempt ALL 4 questions on this paper.
- 2. You are advised to look through the entire examination paper before getting started, in order to plan your strategy.
- 3. Simplicity and clarity of expression in your answers is important.
- 4. All programming questions should be answered using the PYTHON programming language.
- 5. Electronic calculators are **NOT** allowed.
- 6. Start each question on a new page.

Question:	1	2	3	4	Total
Marks:	13	7	10	20	50

Question 1	
0 1 1 2 3 5 8 13	
(a) Write a Python program to print out the first 20 fibonacci numbers, each number separated by a space.	7 marks
(b) Write a second Python program to print out the fibonacci series, separated by spaces, up to, but not including, the number 2000, and then print out how many terms were printed.	6 marks
Question 2	
search (str, 1st, size)	
Question 3	
Guess a number between 0 and 99: 50 Too low. Guess again: 75 Too high. Guess again: 60 Too high. Guess again: 54 Correct. It took you 4 guesses.	
Your program should make use of a boolean flag.	
Question 4	
Use functions as appropriate.	
Sample input:	
T	

Sample output:

100 19 marks

101 12 marks

110 30 marks