## The University of Newcastle School of Electrical Engineering and Computer Science

## COMP3260/COMP6360 Data Security

## **GAME 1 Thursday** 7<sup>th</sup> March 2019

Number of Questions: 2 Time allowed: 50min Total mark: 4

Calculators not allowed.

	Student Number	Student Name
Student 1		
Student 2		
Student 3		
Student 4		
Student 5		
Student 6		
Student 7		

Question 1	Question 2	TOTAL

1. Using fast exponentiation, calculate  $3^{1501} \mod 20$ . Show all the workings.

2. Using Chinese Remainder Theorem, solve the following equation:

 $7x \bmod 15 = 1$