

CMPT 307

Midterm Test
This is a sample!

Some Day, 2024

Last Name _____ First Name and Initials _____

Student No. _____

NO AIDS allowed. Answer ALL questions on the test paper. Use backs of sheets for scratch work.

Total Marks: 100

1. Describe the Stable Matching problem.
2. Describe how the Radix Sort works.
3. What is the running time of Quicksort when all elements of array A have the same value?
4. What is the running time of the Breadth First Search algorithm. Explain.
5. Suppose that you have a “black box” worst-case linear time median sub-routing. Give a simple, linear time algorithm that solves the k -Smallest problem for an arbitrary k .