First Name: Last Name:

Q1: Read the instructions for question Q1 in the assignment document. **For each of the sub-questions, enter your answer in the given space**.

(a): Enter the computed values for $m[i, j]$.

$m[1,1] =$

$m[1,2] =$

$m[1,3] =$

$m[1,4] =$

$m[1,5] =$

$m[1,6] =$

$m[2,1] =$

$m[2,2] =$

$m[2,3] =$

$m[2,4] =$

$m[2,5] =$

$m[2,6] =$

Carefully read the instruction for each question in the assignment document

$m[3,1] =$

$m[3,2] =$

$m[3,3] =$

$m[3,4] =$

$m[3,5] =$

$m[3,6] =$

Carefully read the instruction for each question in the assignment document

$m[4,1] =$

$m[4,2] =$

$m[4,3] =$

$m[4,4] =$

$m[4,5] =$

$m[4,6] =$

(b): The computed LCS is

Q2: Read the instructions for question Q2 in the assignment document. **For each of the three sub-questions, enter your answer in the given space**.

(a): The load factor is (write your answer as a fraction)

(b)-1: The 1st cell probed by Hash-Insert(T, 25) is

(b)-2: The 2nd cell probed by Hash-Insert(T, 25) is

(b)-3: The 3rd cell probed by Hash-Insert(T, 25) is

(c)-1: The 1st cell probed by Hash-Delete(T, 8) is

(c)-2: The 2nd cell probed by Hash-Delete(T, 8) is

(c)-3: The 3rd cell probed by Hash-Delete(T, 8) is

Q3: Read the instructions for question Q3 in the assignment document. **For each of the following sub-questions, enter your answer in the given space**.

(a): The hash value $h(k)$ is

(b)-1: The worst-case time complexity for insertion is (using O-notation)

(b)-2: The worst-case time complexity for searching is (using O-notation)

(b)-3: The worst-case time complexity for deletion is (using O-notation)