Applied Programming

Quiz # 4

Registration #: _____

Q. 1: Which collision handling scheme can tolerate a load factor greater than 1?

Q. 2: Draw a hash table with a bucket array of size 11, and hash code h(i) = 3i + 5 to insert the keys 2, 4, 3, 8, 12, 9, 11 and 20. Assume that collisions are handled using separate chaining.

Registration #: _____

Q. 1: Describe what rehashing is and why it is needed.

Q. 2: Draw a hash table with a bucket array of size 11, and hash function h(i) = 7 - i mod 7 to insert the keys 2, 4, 3, 8, 12, 9, 11 and 20. Assume that collisions are handled using linear probing.