Mini-Quiz 10

Date: April 11, 2019

Your Name: _____

1. What traits would you expect to be associated with limitations by each of the following resources?

Nutrients

Water

Light

Carbon dioxide

2. **Explain Grime's Competitive-Stress Tolerant-Ruderal (C-S-R) plant strategy scheme? Under what type of environments does each strategy thrive?**

3. Pick an ecosystem. How might global change shift the C-S-R makeup in that ecosystem?

4. Two decades after Grime's paper, Mark Westoby proposed a new plant strategy matrix based on leaf size (SLA), plant height, and seed mass call the leaf-height-seed framework, or L-H-S. This is comparable to the C-S-R framework in that SLA describes the competition-stress tolerance axis and height and seed mass describe different ways to deal with disturbance (i.e., the R axis). Explain how SLA could be related to the C-S axis and how height and seed mass could be related to the R axis.

5. What might be some positive or negatives of the L-H-S framework as compared to the C-S-R framework?