

Please print Full name clearly: _____

BIOL 305L Spring 2020

Laboratory Five

Study assignment and review for the first exam

Introduction

The assignment is designed to prepare you for the first *General Botany* exam. This exam covers the second and third talks of the course. This is an "open book" exercise - use the course notes provided on my website to fully explain these questions. You do not need to write full sentences. State facts as bullet points and in as much detail as possible. **Just like a "wet-lab", this study guide lab is worth up to 25 points**

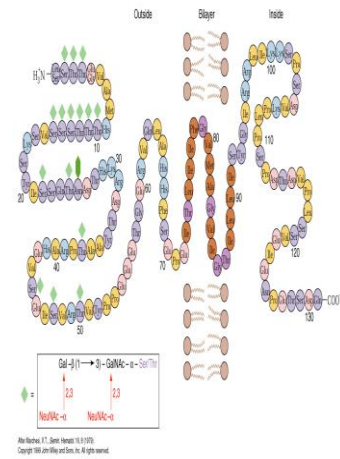
Plant Chemistry

List 10 points to remember about carbohydrates

Fully explain cell membranes, flippase, and transmembrane proteins

Explain the differences between Maltose and Sucrose

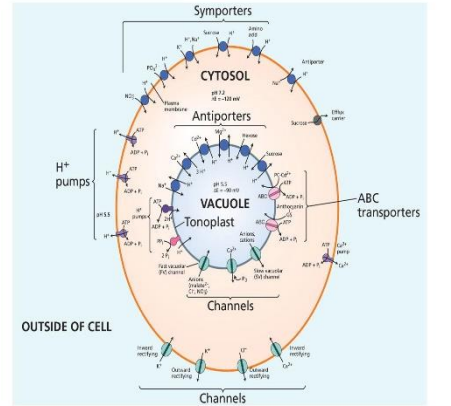
List six points about plant transmembrane proteins



Plant Evolution

Explain the major characteristics of *Green Algae*

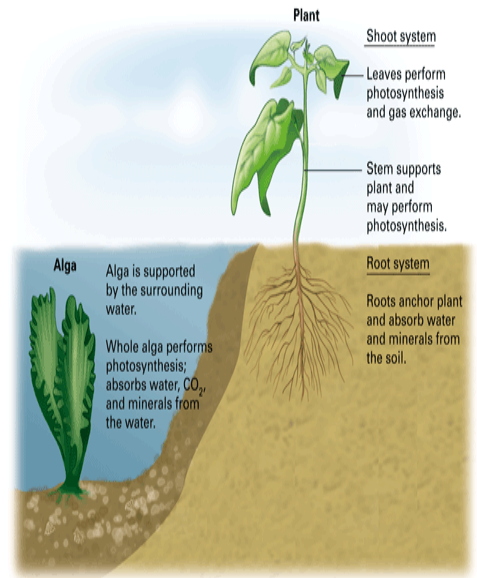
List six points to fully characterize this:



PLANT PHYSIOLOGY, Third Edition, Figure 6.11 © 2002 Sinauer Associates, Inc.

Why would a terrestrial existence be an advantage?

What are the five major characteristics that got plants from the sea to the land



Land plants share two ultrastructural features with the algae *charophyceans*. Explain them both

Bryophytes - list eight facts worth knowing about these:



The Peat Moss

What are the adaptations that allowed ferns to lead the way?



The End