

Protist, Fungi and Plant Test – Study Outline

I. Protists

- A. General Characteristics
- B. Know the major groups and the major characteristics
 - i. Know which represent plankton
 - ii. Red tide and the organism that causes it
 - iii. Which have flagella or multiple nuclei
 - iv. Potato famine?
 - v. Different algae, those called seaweeds and basic seaweed anatomy.
 - vi. Slime molds – Cellular vs Plasmodial (Why aren't they fungi?)
- C. Know what characterizes an organism as autotrophic, heterotrophic and mixotrophic.

II. Plantae

- A. General Characteristics
- B. The evolution of plants and adaptations of plants for land.
- C. Know difference between Bryophytes, Lycophyta, Pterophyta, Gymnosperms and Angiosperms
 - i. Alternation of Generations
 - ii. Phylogeny
- D. Fruit, Flower, Seed – Morphology and Function
- E. Double Fertilization

III. Fungi

- A. General Characteristics (What do they all have in common?)
- B. Know the 5 phylum and basic differences from the lab.
- C. Basic Fungi Life Cycle (Sexual and Asexual)
- D. Symbiosis – Mutualistic and Parasitic
- E. Relationship with humans