

(a) Plants are like other organisms in regard to: basic metabolism, sexual reproduction, clonal reproduction, hormonally regulated development, ability to respond to the environment, diversity and evolution.

Basic metabolism: biomolecules

eukaryotic cell - division of labor into organelles
respiration

Sexual reproduction: after essay is due

Clonal reproduction: vegetative plant parts; after essay is due

Hormones: mentioned on occasion

Response to environment: throughout the course

examples: leaf modifications, different types of photosynthesis

Diversity: structural and functional diversity throughout the course

Evolution: throughout the course via the structural and functional adaptations presented

(b) Plants are unique organisms in: their varied life histories - especially a sporic one with alternation of generations; their role as primary producers in food webs, serving as the interface organisms between the organic and inorganic worlds via mineral assimilation and photosynthesis; and the oxygenation of the atmosphere.

life histories: after the essay is due

photosynthesis and mineral nutrition: between draft and final essay

(c) Plants serve as an important source of products: food, fiber, flavorings, feed, fuel, pharmaceuticals, etc.

mentioned on occasion: secondary metabolites; food sources like seeds, storage organs