Bio 205 Sample Questions for Exam #1, Fall 2005

Multiple Choice

1.	The initial, thread-like growth produced by a germinating moss spore is called:
	a. Protonemab. Setac. Sporophyted. Antheridiophore
2.	Plant life cycles are know as the alternation of generations. Which one of the terms below describe something in the <i>haploid</i> stage?
	a. Spermb. Sporangiumc. Sporophyted. Strobilus
3.	Spores are produced by which process?
	a. Meiosisb. Gametogenesisc. Mitosisd. Fertilization
Short	Answer
4.	Hardy-Weinburg Equilibrium incorporates five basic assumptions. Name one of these assumptions and an example of a violation of this assumption.
5.	What is the difference between a root and a rhizoid?
6.	What does an antheridium produce?
7.	What is the name of the biologist that developed the theory of natural selection?
8.	What is a strobilus?

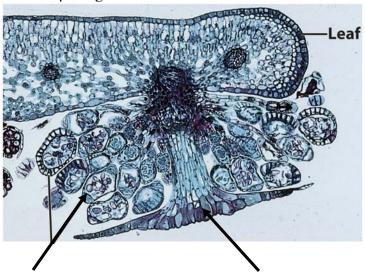
Word Bank

9.	Spore-producing structures.
10	Name given to the arms on <i>Equisetum</i> spores and uncurl when dry, aiding the dispersal of the spore.
11	The part of the hornwort sporophyte that is embedded in the gametophyte and transfers nutrients to the sporophyte.
12.	Name given to the leaf-like flaps of tissue of <i>Psilotum</i> .

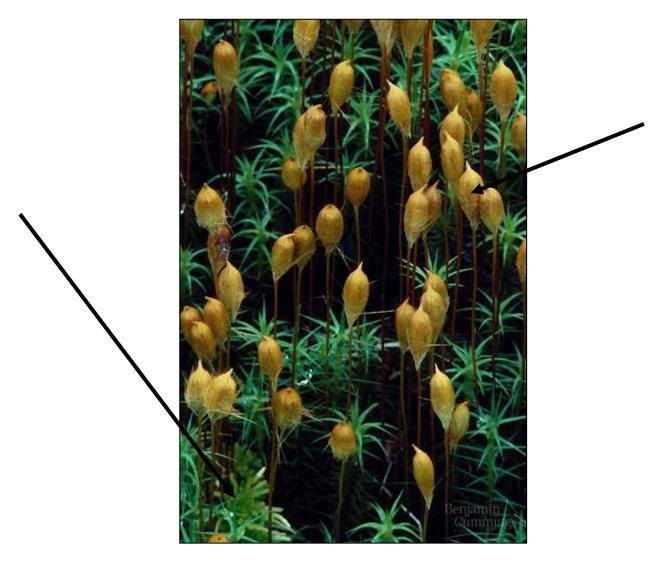
True or False

13. Gametophytes are the dominant generation in mosses	T	F
14. The name of the division/phylum that liverworts belong to is the		
Anthocerophyta	T	F
15. Bryophytes require water for reproduction	T	F
16. Algae represent many endosymbiotic events throughout time	T	F

Label the DiagramLabel a sporangium and the indusium of the fern sorus below



On the moss below, label the sporophyte and the gametophyte



Long Answer

Sample questions – the test will have a choice of 1 out of 3. You may use diagrams, but a diagram alone is not sufficient for full credit in the long answer section.

Discuss the difference between microphylls and megaphylls.

Discuss the differences between a homosporous life cycle and a heterosporous life cycle.

Explain how a moss (Bryophyta) capsule disperses spores. *Include in your answer* how it can tell when conditions are right for dispersal, and how it keeps the spores safe inside when conditions are not right.