

Plant Diversity I

03 March 2009, Bonine 4

Questions to help you review the material and comprehend important points.

1. What group contains the closest relatives to the land plants? What traits do the land plants share with that group?
2. What does the term 'embryophyte' mean and what group does it cover?
3. When did plants emerge onto land? Were these first plants vascular?
4. What are some of the challenges of life on land and how were they met?
5. How did plants reproduce when they first came on land?
6. What positive role does fungus often play in the lives of plants?
7. What roles can plants play in succession?
8. Describe three traits of non-vascular plants. How do they reproduce?
9. What does the life-cycle of a moss look like? How is this life-cycle different from the life-cycle of an angiosperm?
10. When and how did coal form?
11. What makes the vascular plants different than the non-vascular? Are all vascular plants seed plants?
12. Explain the advantages of true roots, overtopping, and leaf production in the context of plant-plant competition.
13. What are stomata for in plant leaves?
14. What are horsetail plants related to?
15. How is the fern lifecycle different from that of moss or angiosperms?
16. How do ferns reproduce? How can they grow so tall?
17. Why did we talk about bristlecone pines in lecture?