

Study questions based on 4/22 lecture

1. Are the green algae that exist on Earth today the direct ancestors of the plants that are found on Earth today? Explain why or why not.
2. How did the key innovation of vascular tissue affect the growth pattern of plants, and what major group of plants was the first to develop vascular tissue?
3. Why might natural selection have favored the emergence of seeds as a key innovation as the climate became cooler and drier at the end of the Carboniferous period?
4. What is the origin of Earth Day?
5. What is the most diverse major group of plants? Why might there be so many species of that type of plant?
6. Compare the life cycle of bryophytes to the life cycle of ferns; how are they similar? How are they different?
7. What is the evolutionary purpose of fruit? What is a fruit?
8. Where are the gametophytes located in gymnosperms?
9. Name three ways in which fungi directly benefit human society.
10. How does pollination by insects, birds, and bats help prevent inbreeding in flowering plants?