**Ch 30: Green Plants**

1. Explain the relationship between the different algae clades and plants.
2. Describe the haplodiplontic life cycle.
3. Distingush between a sporophyte and a gametophyte.
4. Identify two major environmental challenges for land plants and associated adaptations.
5. Explain why chlorophyes are considered close relatives of land plants.
6. Explain why charaophytes are considered the closest relatives of land plants.
7. Describe adaptations of byrophytes for terrestrial environments.
8. Explain the evolutionary significance of tracheids.
9. Analyze the claim that roots, stems, and leaves are evolutionary innovations unique to tracheophytes.
10. Explain features that differentiate lycophytes from bryophytes.
11. List the features exhibited by pterophytes.
12. Contrast pterophyte and moss sporophytes.
13. List the evolutionary advantages of seeds.
14. Distingush between pollen and sperm in seed plants.
15. Describe the distinguishing features of a gymnosperm.
16. List the four groups of living gymnosperms.
17. List the defining features of angiosperms.
18. Describe the roles of some animals in the angiosperm life cycle.
19. Explain double fertilization and its outcome.

