

## Biology 102 Assignment Four

1. What are three adaptations of plants for living on land?
2. What are some key homologies between plants and algae?
3. Which of the following structures is common to all four major plant groups: flowers, seeds, cuticle, or pollen?
4. What are the two generations of the plant lifecycle and what reproductive cell type do they produce?
5. How is it possible for the fern gametophyte to produce haploid gametes without meiosis?
6. Why are coal, oil, and natural gas called "fossil" fuels?
7. Contrast the mode of sperm delivery in ferns with sperm delivery in conifers?
8. In what ways are forests considered a renewable resource?
9. Why is the designation of forests as a renewable resource in reality an inaccurate one?
10. What are the four main organs of a flower?
11. What are the seed bearing structures of a conifer called?
12. What is the difference between pollination and fertilization?
13. What is a fruit?
14. How are an angiosperm and its pollinators mutually rewarded by their relationship?
15. What cell type in plants has the potential to give rise to all other cell types?
16. Biologists generally define an "animal tissue" as a group of cells with common structure and function. How does this definition of a tissue contrast with what biologists call a "tissue system" in plants?
17. What type of plant tissue makes up wood? What is bark?
18. Pollen develops within what structure of a flower? The ovules develop in what?
19. What are the two products of double fertilization?
20. What meristem provides for the increase in girth in plants with secondary growth?