

# Ecology B/C Key

Science Olympiad North Regional Tournament at the  
University of Florida



## Principles of ecology

1. Biotic factors: anything living                      Abiotic factors: precipitation, weather, temperature, altitude, pH, nutrients, soil, sunlight
2. Biotic
3. Biosphere, biome, ecosystem, community, population, species, individual
4. Cluster
5. C
6. Parasitism
7. C
8. Secondary, tertiary
9. 10% rule
10. A
11. Crust, upper mantle
12. (draw by hand)

## Terrestrial biomes

1. Tropical rainforest
2. Permafrost. Small soil layer. Not enough space for roots to hold up trees.
3. Dry landscape. Higher temperatures. Lightning strikes tinder grasses. Etc.
4. Thin. Rapid drainage. Erosion. Dry conditions in part of the year.
5. B
6. FALSE
7. Waxy leaves, store water, prickly thorns, shed leaves, go into dormancy, large root systems, shallow roots

8. Thick fur, white fur, etc.

9.

#### Human impact

1. Discourage poaching and by extension, not exterminate entire species

2. A

3. Grazing

4. Irrigation, firewood gathering, allowing animals to graze

5. TRUE

6. A

7. C

8. Point source: “any single identifiable source of pollution from which pollutants are discharged, such as a pipe, ditch, ship or factory smokestack” and nonpoint source: comes from many diffuse sources. NPS pollution is caused by rainfall or snowmelt moving over and through the ground

9. Chemical reactions in sulfur dioxides and nitrogen oxides released into air. Causes- factories, pollution. Effects- higher pH levels on water systems, disintegrating rocks

10. B

11. <subjective> see that they have facts to support their thesis