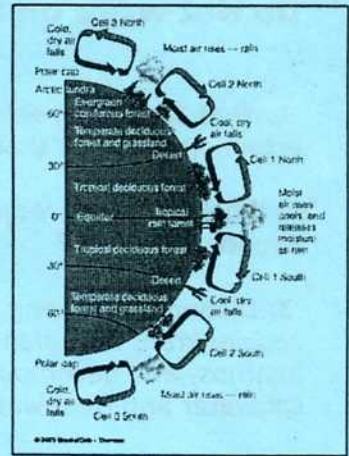


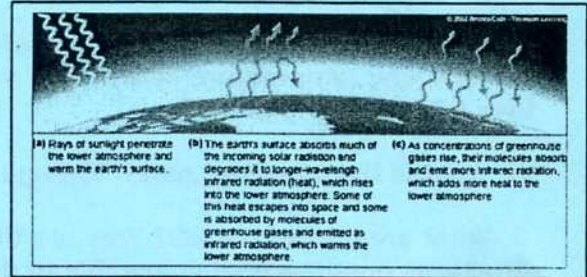
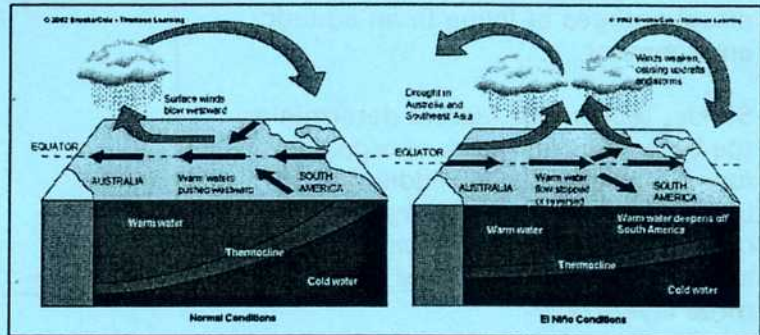
## APES Chapter 5 Review Questions Climate and Biomes

(Be sure to read over pages S 38-S42 in back of textbook)

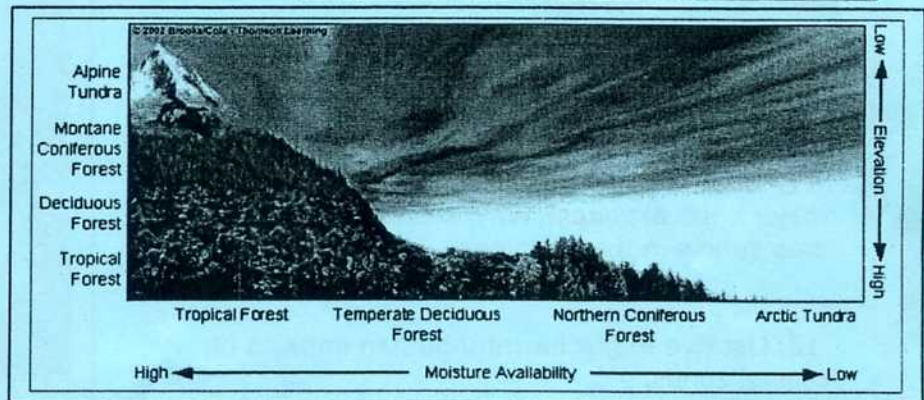
1. How does wind affect climate, global distribution of nutrients, and pollution?
2. What is *climate*? What two main factors determine a region's climate?
3. What are four factors that affect global air circulation? How does each factor affect global air circulation?
4. How do warm and cool ocean currents form? What is an *upwelling*, and why are upwellings important to aquatic life?
5. What is the *El Niño-Southern Oscillation (ENSO)*? How does it affect ocean life and weather in various parts of the world? What is *La Niña*, and how does it affect weather in various parts of the world?



6. What are *greenhouse gases*? List four greenhouse gases. What is the *greenhouse effect*, and how does it affect the earth's climate?
7. What is the rain shadow effect, and how can it affect the microclimate on each side of high mountains? Why do urban areas have different microclimates than surrounding areas, and how do these microclimates differ from those of surrounding areas?
8. What is a *biome*? What two factors determine whether an area of the earth's surface is a tropical, temperate, or polar desert, grassland, or forest? How do climate and vegetation vary with latitude and altitude?



9. What is a *desert*? What are the three major types of desert, and how do they differ in climate and biological makeup? How do desert plants and animals survive heat and a lack of water?



10. What is *grassland*? What are the three major types of grassland, and how do they differ in climate and biological makeup? Distinguish between *arctic tundra* and *alpine tundra*. List 3 types of human activities that have harmful impacts on grasslands.

11. What is *chaparral*, and what is the importance of fire in this biome?

12. What is a *forest*? What are the three major types of forest, and how do they differ in climate and biological makeup? Distinguish among *tropical rain forests* and *tropical deciduous forests*. List five 3 of human activities that have harmful impacts on forests.
13. Why are *mountains* ecologically important, and what factors make them vulnerable to ecological disruption? List 3 types of human activities that have harmful impacts on mountains.