- 1. Without looking in your book or notes (!), write here;
 - a species concept (other than the BSC) and its definition
 - a statement on why you selected it.
- 2. Which species concept is *most* correct? Which is most practical?
- 3. Rank the Hardy-Weinberg assumptions for their effect on the rate of speciation and be ready to justify your ranking.
- 4. Why is macroevolution controversial (in the US public)?
- 5. If finches can travel farther than tortoises, how is that Galapagos finch speciation has progressed to diverse and clearly delineated species, yet tortoises are not clearly different species (Figs. 7.16 and 7.17, pages 194-96 in 5th ed.)?
- 6. There is no such thing as sympatric speciation, except by genetic freaks and mythological creatures. Go ahead. Convince me otherwise.
- 7. How important is ecological speciation and how does it fit in the allo/sympatric speciation story?
- 8. What do you think of the Alvarez et al. hypothesis for the end-Cretaceous extinctions?
- 9. Are most extinctions ecologically-driven or random (e.g., meteors, continents merging)?
- 10. Do spatial patterns in biodiversity (multi-species) relate to genetic diversity (within species)? What does your answer suggest about:
 - a) mechanisms that cause speciation,
 - b) mechanisms that cause extinction, and
 - c) impending challenges for biodiversity?