



**III. Gilding the global lily: McMichael (2002)**

5. According to the author, when it comes to environmental researchers there are “linear optimists” and “systemic optimists.” Give a description of each. *(4 pts.)*
  
  
  
  
  
  
  
  
  
  
6. According to the author, why are both of these groups considered “optimists?” *(2 pts.)*

**IV. The influence of affluence on the environment: Meyers and Kent (2003)**

7. Either specifically or generally, who are the “new consumers” according to the authors? *(2 pts.)*
  
  
  
  
  
  
  
  
  
  
8. According to the authors, which two activities of the “new consumers” most significantly impact the environment? *(2 pts.)*
  
  
  
  
  
  
  
  
  
  
9. How are these two activities responsible for environmental degradation? *(2 pts.)*
  
  
  
  
  
  
  
  
  
  
10. How do the authors suggest minimizing the environmental impact of these two activities? *(2 pts.)*

**V. Human domination of earth's ecosystems: Vitousek *et al.* (1997)**

11. The authors focus upon how humans impact three biogeochemical cycles in particular. Name two. *(2 pts.)*

12. Describe how humans have altered each of these two cycles and what the consequences are. *(5 pts.)*

13. According to the authors, what are the two primary ways in which humans affect biodiversity? *(2 pts.)*

**VI. A blot on the land: Rees (2003)**

14. Define "carrying capacity" and "eco-footprint." *(3 pts.)*

15. How are these two terms related? *(2 pts.)*

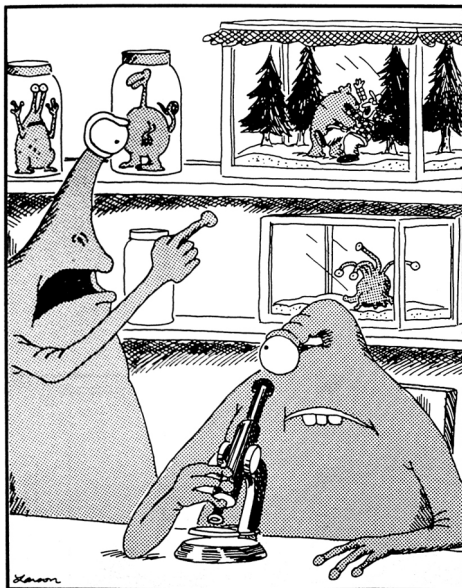
16. What happens if a nation exceeds its carrying capacity or its citizens' eco-footprints grow too large? *(1 pt.)*

**VII. The value of the world's ecosystem services and natural capital: Costanza et al. (1997)**

17. What is a biome? (2 pts.)

18. What two factors are most important in predicting which biome is likely to occur in a given area? (2 pts.)

19. Concisely describe how the authors calculate the value of the world's ecosystem services. (4 pts.)



"Zorak, you idiot! You've mixed incompatible species in the earth terrarium!"



"And see this ring right here, Jimmy? ... That's another time when the old fellow miraculously survived some big forest fire."

NAME (PRINT) \_\_\_\_\_

"I PLEDGE MY HONOR THAT DURING THIS EXAMINATION I HAVE NEITHER GIVEN NOR RECEIVED ASSISTANCE, AND THAT I HAVE SEEN NO DISHONEST WORK."

SIGNATURE \_\_\_\_\_

I HAVE INTENTIONALLY NOT SIGNED THE PLEDGE. \_\_\_\_ (CHECK ONLY IF APPROPRIATE.)