**Geosphere: Farming Test Review**

1. What are the three major components of soil? Represent them in a soil texture triangle. Also, rank them in terms of increasing particle size.
2. The three major biomes on earth are Forests, Grasslands and Deserts. Highlight the major differences in soil quality/soil components/erosion, etc.
3. What are the five major layers of soil? List some properties of each layer.
4. Review: what are the major causes and effects of erosion? What are the three major types of erosion?
5. List three major reasons for creating GMOs. Name the two major types of GMOs discussed in class.
6. Why is the price of meat cheap in this country? What are the consequences of this cheap meat?
7. What are the five major stable crops grown around the world? Which two of them are genetically modified in this country?
8. What is a CAFO? Why are these set up? What are the negative consequences of having them?
9. List and describe three major diseases associated with famine and malnutrition.
10. List five major differences between organic and industrial farming/food.
11. In a diagram, depict the Nitrogen Cycle. In your diagram, provide a brief description of what is happening at each step.
12. How is nitrogen (both naturally and artificially) replenished in soil (give four major ways)?
13. What are the three major components of fertilizer? Explain what each eventually contributes to for the plants.
14. List the four steps of eutrophication, giving one example of a place that experiences it.
15. What are some organic practices that are safe alternatives to industrialized farming practices?
16. What are legumes? Why are they a necessary component in crop rotation?
17. What are pesticides? What are four major types of pets that are targeted? Include the name of the pesticide.
18. One of the most famous pesticides used is DDT. Why did this particular pesticide get so much notoriety, and what effects does it have?
19. What is the grasshopper effect? How does this effect happen?
20. What are some negative effects of pesticides? What practices can be implemented that avoid the use of pesticides?