

Name: \_\_\_\_\_

Dr. Reichler's Bio 325-uex Fall 2008 Quiz 10/21

- 1) What is one advantage to modifying an organism by genetic engineering versus artificial selection?
- 2) Is the most common genetically modified crop used in the U.S. likely to lead to less chemicals being used in agriculture?
- 3) What is different about the unintentional spreading of agricultural chemicals compared to genetically modified plants?
- 4) What ethical and/or legal considerations might apply when patenting the use of a plant, or part of a plant?

Answers:

- 1) Genetic engineering can occur rapidly while artificial selection takes several generations. Genetic engineering can introduce traits that do not already exist in the population.
- 2) No, herbicide resistant plants mean the farmers can apply more herbicides not less.
- 3) Chemicals are only spread by human use, while genetically modified plants can be spread by their own reproduction.
- 4) Any of- Where did the patented information come from? Will this benefit the people who provided information? Is this already being used?