Review for Test 1.3

Terms to know:

1. Domesticate
2. Embryo Transfer
3. Gene Therapy
4. GMO
5. Pharming
6. Round Up
7. Round Up Ready
8. Stem Cells
9. Vaccine
10. Genetic Engineering
11. Gene
12. Deoxyribonucleic Acid
13. Bioremdiation
14. Cloning

Questions: From videos: <http://www.uctv.tv/search-details.aspx?showID=14991> and Harvest of Fearhttp://www.watchknowlearn.org/Category.aspx?CategoryID=11628 or transcripts of HOF: <http://www.pbs.org/wgbh/harvest/etc/script.html>

1. What are the differences between cloning and embryo transfer?
2. What are the advantages to using artificial insemination?
3. What was the first cloned animal? What year?
4. What is Xenotransplantation?
5. What devastated the Papaya crop in Hawaii?
6. How did researchers possibly solve this problem?
7. Why do most GMO’s not need to be labeled?
8. Why are allergies an issue with GMOs?
9. What are the differences between conventional plant breeding and genetic engineering?
10. What are the some potential effects on the enviorment from GMOs?
11. What is Organic Farming?
12. Know the positives and negatives of GM salmon
13. What is the story behind GM banana?
14. What are advantages of golden rice?
15. Know how to read DNA like from today’s assignment
16. What are the primary steps of DNA replication?
17. What is the function of DNA polymerase in the replication process?
18. Why is DNA replication important for biotechnology applications?
19. What are the three components of a nucleotide?
20. IF a DNA strand has 16 bases and 4 are adenine, how many are guanine, cytosine and thymine?
21. Which bases are purines? Pyrimdines?
22. What is the smallest unit of DNA called?
23. Opinion Short Answer Test Question: Are GMOs needed to feed people in America? (must support answer)

Matching, Multiple Choice (with an explanation of why you chose the answer), Short Answer