Biology Review Questions

# Round 1

1. Similarities & Differences between natural and artificial selection?
2. What is the Human Genome Project?
3. What is the structure of DNA?
4. What is the process of DNA Transcription?
5. What is the process of DNA Translation?
6. What is the process of DNA fingerprinting?
7. What is the difference between Allopatric & Sympatric speciation?
8. How is the DNA extracted?
9. What are the three principle of Mendelian genetics?
10. What is DNA?
11. What are the mechanisms of speciation?

# Round 2

1. What is the structure of DNA?
2. Who was LaMarck?
3. What are the 4 bases in DNA?
4. What is the bottleneck effect?
5. What does “fittest” mean in nature? What are the benefits of being fitter?
6. What is allopatric speciation?
7. What is the difference between homozygous and heterozygous?
8. How many chromosomes do humans have?
9. What is genetic screening?
10. What are 2 examples of Non-Mendelian traits?
11. What is de difference between Mitosis and Meiosis?

# Round 3

1. What does the primer do in DNA transcription?
2. What is a Gel Electrophoresis?
3. What was Lamarck's hypothesis?
4. What are ethical concerns in genetic screening?
5. What is the difference between a codon and anticodon?
6. What are restriction enzymes and what are they used for?
7. Give an example of epistasis.
8. What are the uses of DNA fingerprinting?
9. What are the differences between somatic cells and gametes?
10. What are the 4 Darwin postulates?
11. What are Okazaki fragments?