

Biology  
2010  
**2<sup>nd</sup> Semester Final  
Review Worksheet**  
Cover: chapters 14-21, 35, 40

**Due Date: Friday, 6/18/10**

Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

**Sentence Completion**

**Chapter 14**

1. A (An) \_\_\_\_\_ can be used to determine whether a person has inherited the normal number of chromosomes.
2. In humans, sex is determined by the X and \_\_\_\_\_ chromosomes.
3. If a couple has five boys, the probability that the next child will be a boy is \_\_\_\_\_.
4. A (An) \_\_\_\_\_ is a diagram that follows the inheritance of a single gene through several generations of a family.
5. A person who has \_\_\_\_\_ is unable to break down the amino acid phenylalanine.
6. The alleles A and \_\_\_\_\_ for the ABO blood group are codominant.
7. A personal who has blood type O can receive a blood transfusion only from a person who has blood type \_\_\_\_\_.
8. People who have sickle cell disease inherited \_\_\_\_\_ copies of the sickle cell allele.
9. A boy who has hemophilia inherited the disorder from his \_\_\_\_\_.
10. A female with the disorder \_\_\_\_\_ inherits only one X chromosome and has the genotype XO.
11. Nondisjunction in males can lead to the disorder called \_\_\_\_\_.
12. A person can be tested for the allele that causes Huntington's disease because the \_\_\_\_\_ of that allele is different from that of the normal allele.
13. In DNA fingerprinting, the DNA probe that is used is \_\_\_\_\_ to the DNA sequence of the repeats.
14. The process of \_\_\_\_\_ replaces a faulty gene with a normal working gene.

**Chapter 15**

1. James Hutton thought that rocks from the sea floor could be pushed up very high to form \_\_\_\_\_.
2. James Hutton and Charles Lyell held similar views about Earth's age. Both thought that Earth was \_\_\_\_\_ of years old.
3. The geologist \_\_\_\_\_ proposed that past changes in Earth must be explained in terms of events and processes observable today.
4. According to Lamarck, evolution resulted from the inheritance of \_\_\_\_\_ traits.
5. According to Lamarck's theory of the inheritance of \_\_\_\_\_, the long legs of certain shore birds could be acquired by frequent wading in water rather than through inheritance.
6. Although his idea was incorrect, Jean-Baptiste Lamarck was one of the first people to propose a scientific explanation for \_\_\_\_\_.
7. When a population's birthrate exceeds its death rate, the size of the population \_\_\_\_\_.
8. Charles Darwin applied Thomas Malthus's thoughts about human population to all \_\_\_\_\_.