

Biology
2010
**2nd 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 _____.