# Biology

## Chapter 12 Test Study Guide

- 1. Define all vocabulary terms in chapter 12 (if done in homework, this is completed)
- 2. Know definitions for all vocabulary terms in chapter 12.
- 3. Be able to analyze and interpret a pedigree.
- 4. What are three things that cause genetic disorders?
- 5. Be able to do a blood typing genetics problem.

Practice by doing the following problem. Give the possible blood types of offspring.

Female Male

Type AB X Type O

- 6. List the possible kinds of gene mutations and explain each.
- 7. List the possible kinds of chromosomal mutations and explain each.
- What causes the following diseases/disorders ( autosomal recessive, autosomal dominant, sex-linked, etc.):

Cystic fibrosis

Sickle cell anemia

Hemophilia

Red/green colorblindness

PKU (phenylketonuria)

- What is a polygenic trait? Explain how more than two genes code for this trait and how it influences many degrees of variation.
- 10. What are three examples of polygenic traits?
- 11. What is a carrier?
- 12. Does a carrier display the disease/disorder for the recessive gene carried?
- 13. Can a carrier pass a recessive gene for a disease/disorder to offspring?
- 14. What is trisomy?
- 15. What is monosomy?
- 16. What is generally considered the cause of monosomy and trisomy?
- 17. Why does colorblindness affect males more than females?
- 18. What is the difference between mutations in somatic cells and mutations in germ cellswhich can be passed to offspring?
- 19. Explain how mutations can be neutral, harmful, lethal and beneficial? Make sure you know the definition of each of these mutations.

# **Chapter 12 Biology Study Guide**

**Patrick Vollmar** 

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