

## Study guide for Bio 4 Hoffman Chapter 20--Blood

This guide is intended to help you direct your attention to material covered in class. If by error I have failed to include something on this guide that was covered in lecture, it does not mean it will not be on the test. All material on your Powerpoint handouts may be on your test. I have intended to make this guide comprehensive but it is NOT a guide to the questions on the test. Use it wisely.

1. What are the components of blood? What are the formed elements?
2. What are the specific transport-related functions of blood? Name other functions of blood.
3. What are the plasma proteins, and what are their functions?
4. What does "hemopoiesis" mean, and where does it occur ? What are stem cells? What is a hemocytoblast?
5. What is hemoglobin made of? What is its function?
6. Describe erythropoiesis. What is the function of erythropoietin?
7. What is leukopoiesis?
8. Describe a neutrophil , eosinophil, basophil, monocyte, lymphocyte (T cell and B cell) and thrombocyte. Name a function of these cells.
9. What are the blood types, and what determines blood type. Where are the antigens found and where are the antibodies found?
10. What problems occur when different blood types are mixed?
11. What is the Rh antigen system?
12. How may the Rh antigen cause problems in an unborn child? What antigen must the mom have? What antigen must the dad have? What antigen must the child have in order for the problem to arise?