

BIOS 255 Exam 1 Study Guide

This examination covers content learned in weeks 1 & 2. This exam is worth 110 total points, and includes the following types of questions:

- 23 Multiple choice questions @ 3 pts
- 1 Matching question @ 5 pts
- 3 Multiple answer questions @ 4 pts
- 1 Short answer questions @ 4 pts
- 2 Essay questions @ 10

pts You have 75 minutes to complete the

Exam **Ch. 18**

Refer to p. 656. Discuss the functions of the circulatory system.

How is hematocrit obtained? What is found in the hematocrit?

How is the buffy coat obtained? What is found in the buffy coat?

Compare platelet size and structure relative to other formed elements in the blood. (Refer to Figure 18.1, p. 657)

What are the main components in blood plasma (Table 18.2, p. 658)?

What are roles of transferrin versus ferritin?

What heavy metal is found within

hemoglobin? Describe the function of

erythropoiten

Describe the functions of Factor X, prothrombin activator (prothrombinase) and thrombin in blood clotting.

Refer to Table 18.4, p. 666 and explain the different types of anemia that are due to inadequate erythropoiesis

Review Table 18.6, pp. 674-675

Learn the functions of neutrophils, eosinophils, basophils, lymphocytes, and monocytes

Learn the histological appearances of neutrophils, eosinophils, basophils, lymphocytes,

and

monocytes

Study figure 18.14, p. 670 and then explain why the blood types exhibit agglutination or not

Identify blood type when looking at presence or absence of agglutination on a blood typing test

What is the Rh blood group? What does + or – of a blood type represent?