

## **Bios255, Exam 2 Study Guide**

- This examination covers content learned in weeks 3 & 4 (Ch. 20 and first half of Ch. 21)
- This midterm exam is worth 110 total points, and includes the following types of questions:
  - 24 Multiple choice @ 3 pts
  - 1 Matching @ 5 pts
  - 2 Multiple answers @ 4 pts
  - 1 Calculation question @ 5 pts
  - 1 Short answer @ 5 pts
  - 1 Essay @ 15 pts
- You have 75 minutes to complete the Exam

### **Ch. 19 (Review)**

Review Figure 19.7, p. 695. Learn the locations and names of all valves shown.

Read Section 19.6e, pp. 718, 719, "Exercise and Cardiac Output" Describe cardiac events that occur during exercise.

### **Ch. 20**

Refer to Figure 20.2, p. 727. Describe the histology and functions of the blood vessels shown in this figure.

What is the function of the hepatic portal system? Which regions of the body are connected by the system?

Where is the circle of Willis located? What is its function?

Define filtration and reabsorption between capillary and tissues

What is capillary hydrostatic pressure? What creates this pressure?

What is colloid osmotic pressure? What creates this pressure?

What is edema? How does it relate to colloid osmotic pressure?

Study Figure 20.8, p. 731. Describe the distribution of blood in the body.

Discuss the effects of parasympathetic activity, blood viscosity, systemic vasodilation, ventricular contractility, and heart rate on blood pressure.

What is the formula for mean arterial pressure? Calculate the mean arterial pressure using the following information.

Systolic pressure = 120 mmHg

Diastolic pressure = 75 mm

Hg