

Format: 10 multiple choice questions and 3 open ended questions

Concepts to Review:

- Enzymes and the Digestive System (see Homework 14)
  - Understand the terms *metabolism* and *homeostasis*.
  - Understand the terms *organic* and *inorganic*.
  - Understand the job of *enzymes* and understand how it relates to the terms *substrate* and *catalyst*.
  - Be able to explain why the shapes of enzymes are important.
  - Understand the term *denature* and be able to explain how a protein can become denatured.
  - Know the basic building blocks and functions of *carbohydrates* and *proteins*.
- Hormones and the Endocrine System (see Homework 15)
  - Be able to describe the role of a few hormones (such as insulin) in the human body.
  - Be able to explain how *negative feedback* ensures that hormone levels remain stable.
  - Be able to explain what happens in *diabetes*, including the gland and hormone involved.
- Neurotransmitters and the Nervous System (see Homework 16)
  - Be able to explain how the nervous and endocrine systems control all body activities.
  - Be able to explain how a nerve impulse travels through a synapse.
- Antibodies and the Immune System (see Homework 16)
  - Know the difference between an *antigen* and an *antibody*.
  - Be able to explain how antibodies and white blood cells protect the body from pathogens.
  - Be able to explain how vaccines help the immune system function.
  - Be able to describe the symptoms of HIV/AIDS.

Practice Quiz Questions:

- Visit the “Practice Exam Questions” page on the course website at [www.spraguescience.com](http://www.spraguescience.com).
- Download the “Homeostasis in Humans – Exam” file and try all practice questions.
- Check your work by downloading the answer keys.