

Study Guide for Module 1

1. Define the following terms:

- Gross anatomy
- Microscopic anatomy
- Physiology
- Histology
- Organ
- Tissues
- Homeostasis
- Effector
- Selective permeability
- Endocytosis
- Exocytosis

2. Define anatomy versus physiology.

3. List the seven levels of organization in a living organism:

4. List the four types of tissues:

5. What is the general term for the processes in the environment that threaten homeostasis?

6. Define negative feedback response.

7. Define positive feedback response.

8. What two organ systems are most involved in controlling the negative feedback responses of the body?

9. List the following organelle's main functions:

- Nucleus
- Plasma Membrane
- Ribosomes

- Rough Endoplasmic Reticulum
- Smooth Endoplasmic Reticulum
- Golgi Apparatus
- Secretory Vesicle
- Lysosome
- Mitochondria
- Cilia
- Centrioles

10. List the five phases of mitosis in order.

11. What property of phospholipids gives the plasma membrane the ability to reassemble automatically?

12. Define active transport.

13. Define passive transport.

14. What are the four basic ways a substance can get through the plasma membrane?