\*2015-16: Add questions from Homeostasis POGIL

Intro to Anatomy & Physiology Study Guide

**Chapter 1: Intro to Anatomy & Physiology**

Know the 11 organ systems and their main functions.

|  |  |  |
| --- | --- | --- |
| SYSTEM | FUNCTION | ORGAN |
| Integumentary |  |  |
| Skeletal |  |  |
| Muscular |  |  |
| Nervous |  |  |
| Endocrine |  |  |
| Cardiovascular |  |  |
| Lymphatic |  |  |
| Digestive |  |  |
| Respiratory |  |  |
| Urinary |  |  |
| Reproductive |  |  |

1. List the following levels of organization in order from simplest to most complex.

**Organelle, Organ, Tissue, Cell, Organ system, Organism**

1. Know the difference between the following terms:
   * Anatomy-
   * Physiology-
2. Know the difference between the following planes:
   * sagittal-
   * coronal (frontal)-
   * transverse-
3. Be able to explain what Form Follows Function means.
4. Be able to write a Form Follows Function statement.
5. Know the difference between the following terms and be able to use them appropriately (i.e. the shoulder is \_\_\_\_\_\_\_\_\_ to the hand)
   * medial and lateral
   * proximal and distal
   * anterior and posterior
   * superior and inferior
6. Know the 10 Characteristics of Life.
   1. 6.
   2. 7.
   3. 8.
   4. 9.
   5. 10.
7. Know the 5 requirements of organisms for the maintenance of life.
   1. 4.
   2. 5.

9. The human body can be divided into what two categories? What does each category consist of?

10. Describe anatomical position.

1. Define homeostasis.
2. Know the difference between a negative feedback mechanism and a positive feedback mechanism.
3. Know the parts of a homeostatic mechanism. Which part is activated first? Which part is activated last?



1. Be able to put the events of a negative feedback mechanism in order.
   * 1. Increase is detected…
     2. Control center responds…
     3. Decrease occurs because…
2. Know the root words and their definitions. Focus on the following:
   * -algia
   * ante-
   * brady-
   * cardio-
   * chondro-
   * -cyte
   * hema(o)-
   * hyper-
   * -itis
   * -myo
   * osteo-
   * pleura(o)-
   * tachy-
   * -osis
3. Know the following cavities and where they are located. Be able to label the body cavities on a diagram.

|  |  |
| --- | --- |
| * + Dorsal cavity   + Ventral cavity   + Cranial cavity   + Vertebral cavity   + Thoracic cavity | * + Mediastinum   + Pleural cavity   + Abdominopelvic cavity   + Abdominal cavity   + Pelvic cavity |

1. Be able to label the following body regions on a diagram.

|  |  |
| --- | --- |
| * Cephalic * Frontal * Orbital * Nasal * Oral * Cervical * Sternal * Pectoral * Axillary * Otic | * Brachial * Palmar * Digital * Patellar * Pedal * Occipital * Vertebral * Lumbar * Gluteal * Femoral |