

Exam 1 Study Guide

Chapter 1

- **Levels of biological organization**
 1. chemical: atoms and molecules
 2. cellular: molecules combined to form cell
 3. tissues: are groups of cells and materials surrounding them to work together to perform a specific function.
 4. organ: different types of tissues are joined together
 5. system: are related organs with a common function
 6. organism any living organism
- **Positive vs negative feedback**
- **What is the anatomical position?**

A position of the body universally used in anatomical descriptions in which the body is erect, the head is level, the eyes face forward, the upper limbs are at the sides, the palms face forward, and the feet are flat on the floor.
- **Parts of the feedback loop**

the receptor: structure that monitors changes in a controlled condition and send input to a control center.

control center: that receives the input and provides nerve impulse

effector: is a body structure that receives output from the control center and produces a response.
- **Types of serous membranes (ex: pleura, pericardium, peritoneum)**
 - **Serous membrane function *reduce friction***

Serous membranes line the walls of the thoracic and abdominal cavities and cover the organs within them.

serous membrane is a slippery, double-layered membrane associated with body cavities that does not open directly to the exterior called a
 - ***Organs associated with these membranes***

They include the pleura, associated with the lungs; the pericardium, associated with the heart; and the peritoneum, associated with the abdominal cavity.
- Anatomical terms
- Types of planes and the sections created
- **Homeostasis (**

what is it?
is the maintenance of relatively stable conditions in the body's internal environment produced by the interplay of all of the body's regulatory processes.

how is it regulated?
the nervous and endocrine systems regulate homeostasis.
The nervous system detects body changes and sends nerve impulses to counteract changes in controlled conditions.
The endocrine system regulates homeostasis by secreting hormones.
- **Types of body fluid and where are they located**

Body fluids are dilute, watery solutions. Can be inside or outside of the cell. Intracellular fluid (ICF) is inside cells, and extracellular fluid (ECF) is outside cells. Plasma is the ECF within blood vessels. Interstitial fluid is the ECF that fills spaces between tissue cells.

Biology 121 Study Guide

Joacim Rocklöv



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