Ecology

Ecology is the scientific study of interactions among organisms and between organisms and their environment or surroundings.

<u>tissue</u> - group of similar cells that performs a particular function.

- four main types: muscle, epithelial, nervous and connective
- 1) *muscle tissue* enables the body to move.
- 2) epithelial tissue cover interior and exterior body surfaces.
- 3) *nervous* transmits nerve impulses throughout the body.
- 4) connective provides support for the body and connects its parts.

<u>organ</u> - a group of different types of tissues that work together to perform a single function.

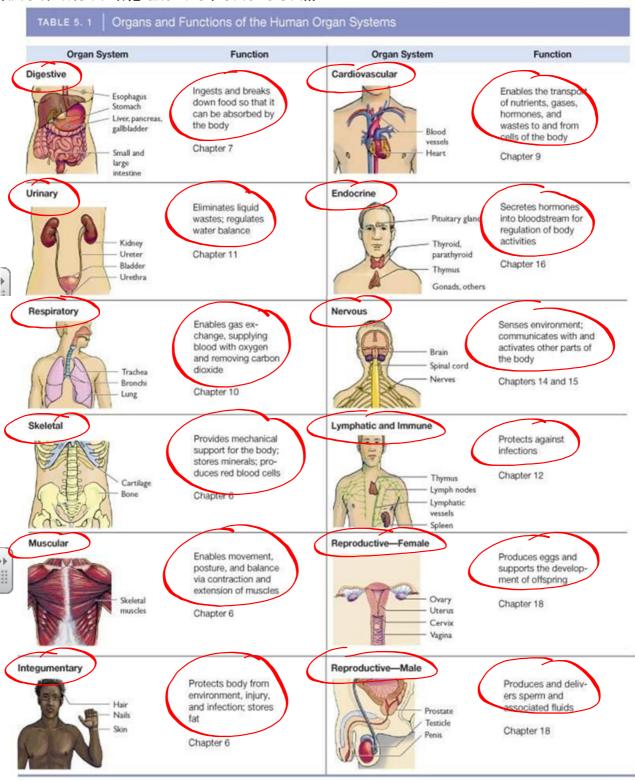
ex: The eye is made up of epithelial tissue, nervous tissue, muscle tissue and connective tissue.

<u>organ system</u> - a group of organs that perform closely related functions.

- the human body has <u>eleven</u> organ systems...

nervous system
integumentary system
respiratory system
digestive system
excretory system
skeletal system
muscular system
circulatory system
endocrine system
reproductive system
lymphatic/immune system

KNOW the NAME and it's FUNCTION...



NOTES - Ecological Organization.pdf Levels of Ecological Organization

The levels of organization studied by ecologists are organisms, species, populations, communities, ecosystems, biomes and finally the biosphere.

- **Organism** an individual living thing.
- **Species** group of individuals that are closely related and can mate to produce fertile offspring.

(don't have to be in the same place)

- **Population** all the members of the same species that live in the same place at the same time.
- **Community** a group of various species that live in the same place and interact with each other.
- Ecosystem a collection of all the organisms that live in a particular place together with their nonliving, or physical environment

• **biome** - a group of terrestrial communities that covers a large area and is characterized by certian soil and climate conditions and particular assemblages of plants and animals











Five Major Types of Biomes

Aquatic Deserts Forests Grasslands Tundra

• <u>biosphere</u> - contains the combined portions of the planet in which all life exists, including land, water, and air, or atmosphere.

- extends from about 8 km above Earth's surface to as far as 11 km below the surface of the ocean

Biosphere 2 ???



Special Special People Can Eat Baked Sean Organism Species Ropulations Communities Ecosystem Biome Rissphere

Cell
Tissue
Organ
Organ

[-Too's]

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