**Study Guide Biology 2 CP Final Exam**

**Ecology and Behavior**

1. List an example of imprinting.
2. List an example of habituation.
3. List an example of cognitive thinking.
4. Opossums sleep during the day and are awake at night because of their kind of \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_.
5. \_\_\_\_\_\_\_\_\_\_\_\_ is a biome on Earth that is dominated by lichen and mosses in the summer.
6. \_\_\_\_\_\_\_\_\_\_\_\_ is a biome on Earth that is dominated by year around warm temperatures and high rain fall and high biodiversity.
7. List 3 biotic factors.

**Overview of Tissues**

1. Sketch the 3 types of muscle. Label them and determine if voluntary or involuntary
2. The process of motion is reliant upon the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ system.
3. What specific type of tissue holds together bone to bone? (CFLABB)
4. What system is made of mostly smooth tissue?
5. Draw simple squamous tissue and simple cuboidal tissue. Which one secretes?
6. Put the following in order from the smallest to the largest. Organ, cell, tissue, system, body.
7. What is homeostasis? How is negative feedback a part of homeostasis?

**Reproductive, Nervous and Endocrine System**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are two types of hormones. \_\_\_\_\_\_\_\_\_\_\_\_ asks permission from the cell and \_\_\_\_\_\_\_\_\_\_\_\_\_\_ enters the cell and manipulated the DNA.
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the master gland.
3. The \_\_\_\_\_\_\_\_\_ is a series of monthly changes in the reproductive system that includes producing and releasing an egg and preparing the uterus to receive it.
4. When immature sperm leave the testes, they travel through a duct to a long, coiled tube known as the \_\_\_\_\_ where they mature and remain until expelled or reabsorbed.
5. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ contains the brain and spinal cord.
6. The \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ increases the rate at which messages can travel through the neuron.
7. Nerves cells are \_\_\_\_\_\_\_\_\_\_\_ meaning that they can live forever!
8. List function and location produced with the following hormones
	1. Melatonin
	2. Estrogen
	3. TSH
	4. Testosterone
	5. Insulin

**Cardiovascular System**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the lower chamber of the heart.
2. When Erythrocytes are mature, they don't have a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
3. The center of some bones has red marrow and they produce \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, some middle of the bones has yellow marrow and make \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the iron containing protein that pick up oxygen after it enters the blood vessels in the lungs.
5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is(are) the grape like structures in the lungs where exchange of oxygen and carbon dioxide takes place.
6. What color is the pulmonary vein?
7. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a vessel that carried blood from the left ventricle to all of the body cells.
8. What is the shape of your diaphragm when you inhale?
9. Arteries are usually \_\_\_\_\_\_\_\_\_\_\_(color) and usually carry blood \_\_\_\_\_\_\_\_\_\_\_\_ from the body.

**Digestive**

1. The liver makes \_\_\_\_\_\_\_\_\_\_\_ which is stored in the gallbladder.

**Muscle, Bone, and Integumentary System**

1. What is the thin outer layer of dead skin cells called? \_\_\_\_\_\_\_\_\_\_\_\_\_
2. When a muscle contracts, \_\_\_\_\_\_\_\_\_\_\_ filaments pull against the moveable \_\_\_\_\_\_\_\_\_\_\_\_ filaments shortening the \_\_\_\_\_\_\_\_\_\_\_\_\_\_.
3. Bones can get a \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, or a small break from continued use.
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is exercise when oxygen is needed.

**Bacteria, Immune, and Viruses**

1. Bacteria and Archea are \_\_\_\_\_\_\_\_\_\_, having no membrane bound nucleus or other organelles.
2. Bacteria have the ability to mutate quickly because they carry extra DNA in the form of a \_\_\_\_\_\_\_\_\_\_.
3. Breastfed babies get a \_\_\_\_\_\_\_\_\_\_\_\_\_ immunity.
4. A person who receives a donor lung may need immunosuppressive drugs so that the organ is not rejected. That person’s body might realize that the new organ is foreign due to its \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
5. MS is a \_\_\_\_\_\_\_\_\_\_\_\_ disorder.
6. What type of fevers increases the maturation rate of WBC?
7. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is released during an inflammatory response allowing blood vessels to become leakier.
8. \_\_\_\_\_\_\_\_\_\_\_\_\_ are gram negative and have lipids that make up their cell membrane and parts of the cell wall.

**Taxonomy**

1. How can you tell, by looking at the binomial nomenclature of two species, if they are closely related?
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the study of the classification of living things.
3. All animals are (list 3 things) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

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