Study Guide For Skin, Bones, and Muscle

Skeletal

1. List the functions of the skeletal system. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. The knee is an example of a \_\_\_\_\_\_\_\_ joint.
3. Can you ID all the bones of the skull. Vertebrate, arms, legs, core body?
4. What are the roles of cartilage? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Bones have blood vessels that run through \_\_\_\_\_\_\_ to supply bone cells with oxygen.
6. \_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_ are released to harden bone.
7. Tearing the \_\_\_\_\_\_\_\_\_\_ or anterior cruciate ligament is common in athletes. It connects the \_\_\_\_\_\_\_\_\_\_\_\_ to the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
8. At birth, humans have more \_\_\_\_\_\_\_\_ than bone.
9. The Center of the bone is made of red marrow, which produces \_\_\_\_\_\_\_\_. Following a sever injury and blood loss, the yellow marrow, which is mostly \_\_\_\_\_\_\_\_\_ can convert back to red marrow to produce blood cells.

Muscular

1. The muscle that contract to raise the arms, as shown in the picture, is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. Which muscle raises the eyebrow? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Which muscle pulls the forearm to the shoulder? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. The \_\_\_\_\_\_\_\_\_\_ is the structure that connects the gastrocnemius to the calcaneus.
5. The blood vessels, made of smooth muscle can control \_\_\_\_\_\_\_\_\_ for internal body temperature regulation.
6. Both cardiac muscle and smooth muscle are \_\_\_\_\_\_\_\_\_\_\_.
7. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are striated, voluntary, and multinucleated.
8. Biceps and triceps are considered to be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ muscle pairs.
9. Be able to label a muscle cell. (sarcomere, myosin, actin, nucleus)
10. What does calcium help with in the muscular system? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Skin

1. \_\_\_\_\_\_\_\_\_\_\_\_ is the largest organ in the body.
2. The \_\_\_\_\_\_\_\_ is considered to be an organ because it is made of various types of tissues such as mucus membranes.
3. The skin produces 2 types of sweat. \_\_\_\_\_\_\_\_\_\_\_\_ is only produced in the armpits and groin area.
4. \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the skin are responsible for preventing infection and waterproofing.
5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are the 3 layers of skin.
6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the brown chemical pigment in the skin.
7. Skin color is determined by the genes, but it is a balance between being light enough to allow Ultraviolet radiation to enter and produce \_\_\_\_\_\_\_\_, but skin cannot be sol light that it allows UV to damage underlying tissues.
8. Why do African Americans have darker skin? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. People or animals that do not have the ability to produce melanin are said to be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
10. The outermost portion of the epidermis is made of dead, \_\_\_\_\_\_\_\_, cells that prevent the skin from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.