Science Test 24 – Chapter 24 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Score: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ % of reading done: \_\_\_\_\_\_\_\_\_\_\_\_\_

Matching: Match each term with the correct definition

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| --- | --- |
| 1. \_\_\_\_ blister | 1. A water-filled swelling of the epidermis of the skin. |
| 1. \_\_\_\_ cardiac muscle | 1. A tissue that serves as a protective covering layer in plants and animals. The outer layer of skin. |
| 1. \_\_\_\_ bone marrow | 1. Muscle tissue that lacks striations; forms the walls of many internal organs |
| 1. \_\_\_\_ callus | 1. The strong supporting structure of vertebrates |
| 1. \_\_\_\_ dermis | 1. Muscle controlled automatically by the brain; controlled without us thinking about it |
| 1. \_\_\_\_ bone | 1. Muscle tissue that displays a pattern of light and dark bands |
| 1. \_\_\_\_ cartilage | 1. A soft tissue that produces blood cells; located in the marrow cavity of long bones and in the spaces of spongy bone |
| 1. \_\_\_\_ skeletal muscle | 1. The place where two or more bones meet |
| 1. \_\_\_\_ melanin | 1. The layer of fat and connective tissues below the dermis of the skin |
| 1. \_\_\_\_ joint | 1. An area of skin with a thickened epidermis |
| 1. \_\_\_\_ osteon | 1. A band of connective tissue that holds the bones of a joint in place; connects bone to bone |
| 1. \_\_\_\_ ligament | 1. The connective tissue that attaches muscle to bone |
| 1. \_\_\_\_ involuntary muscle | 1. A kind of striated, involuntary muscle that is found in the heart |
| 1. \_\_\_\_ epidermis | 1. A dark brown or black pigment in the skin |
| 1. \_\_\_\_ striated muscle | 1. A muscle that can be controlled at will |
| 1. \_\_\_\_ tendon | 1. A flexible supporting tissue that makes up part or all of some animals’ skeletons |
| 1. \_\_\_\_ voluntary muscle | 1. A microscopic unit of a bone consisting of a blood vessel and layers of hard, nonliving material around it |
| 1. \_\_\_\_ smooth muscle | 1. A process that requires oxygen |
| 1. \_\_\_\_ subcutaneous layer | 1. The thick, inner layer of the skin that lies between the epidermis and the subcutaneous layer |
| 1. \_\_\_\_aerobic cellular respiration | 1. Muscle tissue that attaches to and moves the skeleton |

True or False: Determine whether each statement is true or false.

1. \_\_\_\_ Our heart is an involuntary muscle.
2. \_\_\_\_ A “crush fracture” of a bone is when the bone is smashed.
3. \_\_\_\_ A third degree burn destroys both the epidermis and the dermis.
4. \_\_\_\_ Our skin allows many “outside” things into our bodies but does not allow blood out of our bodies.
5. \_\_\_\_ It is our nerves in our skin that respond to cold, heat, touch, and pressure.
6. \_\_\_\_ We often get blisters when we do too much sitting around.
7. \_\_\_\_ Our skull is an example of a fused joint.
8. \_\_\_\_ Muscles always work by pulling, never by pushing.
9. \_\_\_\_ Our skeleton gives our body structure and form.
10. \_\_\_\_ Our muscles allow us to move.

Multiple Choice: Choose the best answer for each question.

1. \_\_\_\_\_ Which bone provides protection to our brain?
   1. Ribs
   2. Pelvis
   3. Skull
   4. Clavicle
2. \_\_\_\_\_ How many bones do we have in our bodies?
   1. 304
   2. 196
   3. 216
   4. 206
3. \_\_\_\_\_ Our shoulder is an example of a \_\_\_\_\_\_\_\_\_\_\_\_ joint?
   1. Hinge
   2. Pivot
   3. Ball-and-socket
   4. Gliding
4. \_\_\_\_\_ Our backbone is an example of a \_\_\_\_\_\_\_\_\_\_\_\_ joint?
   1. Hinge
   2. Pivot
   3. Ball-and-socket
   4. Gliding
5. \_\_\_\_\_ Which bone provides protection to our spinal cord?
   1. Vertebrae
   2. Pelvis
   3. Ribs
   4. Sternum
6. \_\_\_\_\_ The ridges on the bulb of our finger that we use for fingerprinting are called \_\_\_\_?
   1. Papillae
   2. Blister
   3. Callus
   4. Sunburn
7. \_\_\_\_\_ Our skin is what percent of our body weight?
   1. 8%
   2. 20%
   3. 6%
   4. 13%
8. \_\_\_\_\_ A sunburn is what kind of a burn?
   1. First degree
   2. Second degree
   3. Third degree
   4. It is not a burn

Short Answer: Answer in question with complete sentences.

1. What two minerals are especially important in giving bones their strength?

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1. Explain why our skin is considered to be a major defense against disease.

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1. Explain how our skin is able to help keep us cool.

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1. List the four functions of the skeletal system.

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Extra Credit:

1. Which muscle is the longest in our body? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. We have approximately \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ muscles in our body.