

BODY SYSTEMS WEEK #1 PACKET

Name: _____

Integumentary System

1. What are the functions of the Integumentary system?

Layers of Skin

2. Name the three layers of skin from superficial to deep:

- a. _____
- b. _____
- c. _____

3. Name and describe the five layers of the epidermis:

- a. _____
- b. _____
- c. _____
- d. _____
- e. _____

3. Describe the types of cells found in the epidermis:

4. Describe the components of the dermis:

5. What makes up the hypodermis, and why is this a good site for medical injections?:

Accessories of Skin

6. Name and describe the following accessories of skin:

a. Hair: _____

b. Nails: _____

c. Nerves: _____

d. Blood Vessels: _____

e. Muscles: _____

Skeletal System

1. What are the functions of the skeletal system?

2. Describe the structure of a typical bone.

3. What is a joint? _____

Describe the following joints:

- Immovable joints _____
 - Example _____
- Slightly movable joints _____
 - Example _____
- Freely movable joints _____
 - Example _____

4. How does compact bone differ from spongy bone?

5. What are three types of connective tissue found in joints?

6. How are the three types of connective tissue distinguished?

7. Choose one of these conditions and complete the questions.

Some common diseases or conditions of this system are:

- Arthritis
- Osteoporosis
- Chondromalasia

Disease/Condition: _____

- What are the causes? _____

- What are the symptoms? _____
- What effects are seen on the respiratory system? _____

- How is the condition treated? _____

Muscular

1. What are the functions of the muscular system?

2. What are the functions of the different types of muscle tissue?

- Skeletal muscle _____
 - Example _____
- Smooth muscle _____
 - Example _____
- Cardiac muscle _____
 - Example _____

3. What are striations? What types of muscle tissue have striations?

4. Make a flow chart showing how muscle contraction works.

5. Define actin: _____

6. Define myosin: _____

7. What is acetylcholine, and what is its role in muscle contraction?
