

Human Body Systems Unit Test Study Guide

Directions: Write your answers to the following questions on a sheet of notebook paper. Show all your work. Problems may require finding systems, parts, or structures associated with the following questions.

1. What is homeostasis?

Homeostasis is a body's response to environmental changes.

2. What are body systems that control temperature, blood sugar, blood pressure, and fluid and salt balance? How do they work together?

The endocrine system, nervous system, and circulatory system.

3. What are major systems that are blood cells?

The circulatory system, the immune system, and the respiratory system.

4. What are specific types of body tissue that are associated with each?

Epithelial tissue

5. What are **major** functions of the cellular system?

- a. **Transportation of blood**
- b. **Transportation of oxygen**
- c. **Transportation of nutrients and waste products**

6. How are parts of respiratory system together? (Describe)

The respiratory system is made up of the trachea, bronchi, and bronchioles. The trachea is the main airway that carries air in and out of the lungs. The bronchi are the main airways that branch off from the trachea. The bronchioles are the smallest airways that lead to the alveoli, where gas exchange takes place.

7. How does the skin help to protect the body from disease?

The skin acts as a barrier between the body and the environment. It prevents pathogens from entering the body and helps to regulate body temperature. The skin also contains immune cells that help to fight off infections.

8. What is the main function of the digestive system? How does it help to protect the body?

Immune system

9. What are the three main types of muscle tissue? (Describe each. If either they are found)

a. **Skeletal:** This type of muscle is attached to bones and is responsible for voluntary movements. It is striated and has a long lifespan.

b. **Cardiac:** This type of muscle is found in the heart and is responsible for pumping blood. It is striated and has a long lifespan.

Human Body Unit Test Study Guide

Jessica J Manson



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