

## **Body Systems Worksheet Answer Key PDF**

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### Part 1: Building a Foundation

#### Which of the following is NOT a component of the circulatory system?

undefined. A) Heart **undefined. B) Lungs** ✓ undefined. C) Blood undefined. D) Blood vessels

The correct answer is B) Lungs, as they are part of the respiratory system.

### Which of the following are functions of the skeletal system? (Select all that apply)

undefined. A) Protects internal organs ✓

undefined. B) Produces hormones

undefined. C) Enables movement 🗸

undefined. D) Transports oxygen

The correct answers are A) Protects internal organs, C) Enables movement.

#### List the main components of the nervous system and briefly describe their primary function.

The main components are the brain (controls body functions), spinal cord (transmits signals), and nerves (connects body parts).

#### Identify and describe two key functions of the respiratory system.

1. Function 1 Gas exchange

2. Function 2



### **Regulating blood pH**

Key functions include gas exchange (oxygen in, carbon dioxide out) and regulating blood pH.

### Which system is primarily responsible for hormone production and regulation?

undefined. A) Nervous system undefined. B) Endocrine system ✓

undefined. C) DigestIVE system

undefined. D) Integumentary system

The correct answer is B) Endocrine system, as it produces hormones.

### Part 2: Application and Analysis

# If a person has a broken leg, which body system is directly affected, and what is the immediate consequence?

undefined. A) Nervous system; loss of sensation

### undefined. B) Skeletal system; impaired movement $\checkmark$

undefined. C) Circulatory system; blood loss

undefined. D) Endocrine system; hormone imbalance

The correct answer is B) Skeletal system; impaired movement is the immediate consequence.

# In a scenario where a person is dehydrated, which systems are involved in correcting this imbalance? (Select all that apply)

undefined. A) Excretory system ✓ undefined. B) DigestIVE system undefined. C) Nervous system ✓ undefined. D) Integumentary system

The correct answers are A) Excretory system, C) Nervous system.

### Describe how the digestive system adapts when a person consumes a high-protein diet.

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# The digestive system increases enzyme production to break down proteins and may enhance nutrient absorption.

### Which of the following best describes the relationship between the endocrine and nervous systems?

undefined. A) They operate independently of each other.

undefined. B) The nervous system controls the endocrine system through electrical signals. ✓ undefined. C) The endocrine system controls the nervous system through chemical signals. undefined. D) They both use blood to transport signals.

The correct answer is B) The nervous system controls the endocrine system through electrical signals.

Analyze the role of the integumentary system in homeostasis. Which of the following are true? (Select all that apply)

undefined. A) Regulates body temperature  $\checkmark$ 

undefined. B) Produces red blood cells

undefined. C) Acts as a barrier to pathogens  $\checkmark$ 

undefined. D) Synthesizes vitamin D ✓

The correct answers are A) Regulates body temperature, C) Acts as a barrier to pathogens, D) Synthesizes vitamin D.

### Part 3: Evaluation and Creation

### Which of the following scenarios would most likely result in a compromised immune system?

undefined. A) Regular exercise and a balanced diet

### undefined. B) Chronic stress and lack of sleep $\checkmark$

undefined. C) Adequate hydration and rest

undefined. D) Consistent exposure to sunlight

The correct answer is B) Chronic stress and lack of sleep, as these can weaken the immune response.

Evaluate the impact of smoking on the respiratory and circulatory systems. Which of the following are potential consequences? (Select all that apply)

undefined. A) Reduced lung capacity  $\checkmark$  undefined. B) Increased blood pressure  $\checkmark$ 

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undefined. C) Enhanced oxygen transport undefined. D) Decreased risk of infections

The correct answers are A) Reduced lung capacity, B) Increased blood pressure.

Design a daily routine that promotes the health of at least three different body systems. Explain how each activity benefits the respective system.

A daily routine could include exercise (benefits muscular and cardiovascular systems), balanced diet (supports digestive and immune systems), and adequate sleep (aids nervous system recovery).

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