

Body Systems Worksheet Questions and Answers PDF

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Part 1: Building a Foundation

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

Hint: Think about the main organs and substances involved in circulation.

○ A) Heart

○ B) Lungs ✓

○ C) Blood

O 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)

Hint: Consider the roles of bones and joints in the body.

□ A) Protects internal organs ✓

B) Produces hormones

□ C) Enables movement ✓

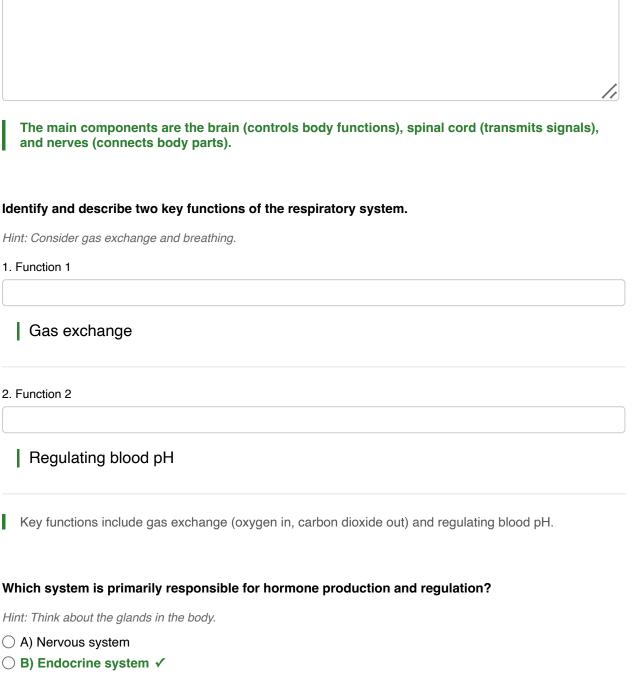
D) Transports oxygen

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.

Hint: Think about the brain, spinal cord, and nerves.





- C) DigestIVE system
- \bigcirc 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?

Hint: Consider the system that supports the body structure.

- A) Nervous system; loss of sensation
- B) Skeletal system; impaired movement ✓
- C) Circulatory system; blood loss
- 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)

Hint: Think about systems that regulate fluid balance.

□ A) Excretory system ✓

B) DigestIVE system

□ C) Nervous system ✓

- 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.

Hint: Consider changes in digestion and metabolism.

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?



Hint: Think about how these systems communicate.

- A) They operate independently of each other.
- \bigcirc B) The nervous system controls the endocrine system through electrical signals. \checkmark
- C) The endocrine system controls the nervous system through chemical signals.
- \bigcirc 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)

Hint: Consider the functions of skin and related structures.

□ A) Regulates body temperature ✓

- B) Produces red blood cells
- \Box C) Acts as a barrier to pathogens \checkmark
- □ 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?

Hint: Think about lifestyle factors that affect health.

- O A) Regular exercise and a balanced diet
- B) Chronic stress and lack of sleep ✓
- C) Adequate hydration and rest
- 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)

Hint: Consider the effects of tobacco on health.

- □ A) Reduced lung capacity ✓
- □ B) Increased blood pressure ✓



C) Enhanced oxygen transport

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.

Hint: Think about activities like exercise, diet, and sleep.

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).