7th Grade Science: Body Systems Challenge 2

Name: _____ Date: _____ Class/Period: _____

Directions: Read each question carefully. Circle the best answer. For questions that say "Select TWO," choose two answers.

1. A student's body temperature rises while playing basketball. The student begins sweating. How does this response help maintain homeostasis?

A. It causes the kidneys to stop filtering blood
B. It helps cool the body down
C. It makes the heart stop beating
D. It increases the amount of salt in the blood

2. After drinking several glasses of water, which response may help the body maintain homeostasis?

A. The kidneys remove more water by producing more urine
B. The lungs stop working
C. The brain stops sending signals
D. The stomach stores the extra water

3. A student touches a hot pan and quickly pulls their hand away. Which body system helps detect the heat and coordinate this response?

A. Reproductive system
B. Digestive system
C. Nervous system
D. Skeletal system

4. How do the nervous and circulatory systems work together to help body systems respond to changes?

A. The nervous system sends signals, and the blood transports materials needed by organs
B. The circulatory system makes bones move
C. The nervous system filters wastes from the blood
D. Both systems produce urine

5. Which TWO are functions of the excretory system? Select TWO.

A. Removing urea and other wastes
B. Pumping blood throughout the body
C. Regulating water and salt levels
D. Breaking food into nutrients

6. Which organ is the place where a baby develops during pregnancy?

A. Ovary
B. Uterus
C. Kidney
D. Bladder

7. True or False: The nervous system detects changes and coordinates responses that help maintain homeostasis.

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True
False

8. What may happen if the kidneys do not remove enough waste from the blood?

A. Wastes can build up in the blood
B. The body stops needing water
C. The bones become shorter
D. The lungs produce urine

9. True or False: The reproductive system filters blood and produces urine.

True
False

10. During dehydration, which TWO responses help the body conserve water? Select TWO.

A. The brain triggers a thirst response
B. The kidneys conserve more water
C. The kidneys release all stored water
D. The body stops circulating blood

Score: _____ / 10

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