Evaluate: SCR 2- Homeostasis & Feedback

INSTRUCTOR:
no_reply@example.com

Vocabulary Matching (Match the term to its function)

1. **_____ Homeostasis**
2. **_____Feedback Loop**
3. **_____ Positive Feedback**
4. **_____ Negative Feedback**
5. **_____ Hormone**
6. **_____ Endocrine System**
7. **_____ Internal Stimulus**
8. **_____ External Stimulus**

Definitions

A. *A signal from outside the body, like heat or noise, that causes a reaction.*
B. *A chemical signal made by glands that controls activities in the body.*
C. *A system of responses where the body increases a change (like more contractions during childbirth).*
D. *The body's ability to keep internal conditions stable despite changes.*
E. *A change from inside the body, like low oxygen or high temperature.*
F. *Sends hormones to organs to regulate growth, mood, and metabolism.*
G. *A process where the body works to bring itself back to a normal state (like cooling when hot).*
H. *A cycle of detecting changes and responding to them to maintain balance.*

Multiple Choice

9. **What is the main goal of homeostasis?**
   A. To make the body grow faster
   B. To return the body to a stable internal state
   C. To destroy bacteria
   D. To increase reproduction

10. **Which is an example of negative feedback?**
    A. Blood clotting
    B. Uterine contractions during labor
    C. Sweating to cool the body
    D. Fruit ripening due to ethylene

11. **What role does the endocrine system play in homeostasis?**
    A. It digests food
    B. It produces hormones that regulate body functions
    C. It defends the body from pathogens
    D. It breaks down toxins

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12. Which system detects changes in temperature and triggers a sweat response?

A. Muscular
B. Nervous
C. Immune
D. Circulatory

13. Which of the following best describes positive feedback?

A. A loop that returns conditions to normal
B. A loop that amplifies a change
C. A loop that removes waste
D. A loop that slows digestion

14. How does the body respond to high carbon dioxide levels?

A. Increases sweating
B. Slows breathing
C. Speeds up breathing
D. Increases glucose levels

SCR 1 – Argument-Based

***Prompt*: Describe how the endocrine and nervous systems work together using feedback loops to maintain homeostasis.**

Sentence Stems:

- *The endocrine system uses hormones to…*
- *The nervous system detects…*
- *Together, they regulate…*
- *A feedback loop helps the body by…*

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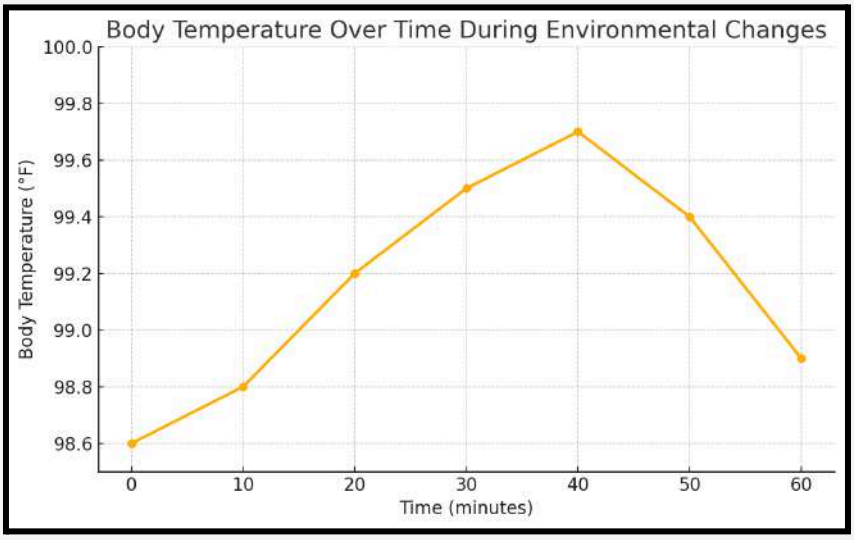
SCR 2 – Graph Interpretation

Body temperature over time with environmental changes

***Prompt*: Analyze the graph to explain how the body maintains homeostasis in response to temperature changes.**



***Sentence Stems*:**

- *The graph shows a temperature increase at…*
- *The body responds by…*
- *This is an example of (positive/negative) feedback because…*