

Homeostasis Quiz PDF

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Which component of a homeostatic system detects changes in the environment?	
○ Effector	
○ Control Center	
○ Receptor	
○ Hormone	
Provide an example of how the respiratory system contributes to homeostasis.	
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How does the body respond to a decrease in external temperature to maintain homeostasis?	
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Explain the role of feedback loops in maintaining homeostasis.



Explain how negative feedback helps maintain homeostasis.	
What role does the kidney play in homeostasis?	
Regulates blood sugar	
Controls heart rate	
Maintains electrolyte balance	
O Produces red blood cells	
Which of the following are components of a homeostatic system? (Select all that apply)	
Receptor	
☐ Effector	
Control Center	
□ Neuron	
Which hormone is primarily responsible for lowering blood glucose levels?	
○ Glucose	
○ Insulin	
O Adrenaline	
○ Cortisol	

Which system is primarily responsible for fast response in homeostatic regulation?



○ Endocrine system	
O Nervous system	
O Digestiv system	
Respiratory system	
Discuss how aging can affect homeostatic processes in the body.	
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Describe the role of insulin in glucose homeostasis.	
What is osmoregulation, and why is it important for homeostasis?	•
What is the main function of baroceptors in the body?	
O Detect changes in blood pressure	
Sense temperature changes	
Monitor glucose levels	

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Regulate hormone secretion
What are the functions of the endocrine system in homeostasis? (Select all that apply)
 ☐ Hormonal regulation ☐ Fast response to stimuli ☐ Metabolic process control ☐ Physical barrier formation
Which factors can disrupt homeostasis? (Select all that apply)
□ Extreme temperatures□ Dehydration□ Nutrient deficiencies□ Balanced diet
Which of the following is a result of homeostatic failure in glucose regulation?
HypertensionDiabetesAnemiaAsthma
What are examples of positive feedback mechanisms? (Select all that apply)
 □ Blood clotting □ Childbirth contractions □ Temperature regulation □ Blood pressure regulation
Which systems work together to maintain homeostasis in the human body? (Select all that apply)
Nervous systemEndocrine systemSkeletal systemMuscular system
Which processes are involved in thermoregulation? (Select all that apply)
Sweating

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☐ Shivering☐ Vasodilation☐ Blood clotting
What is the primary purpose of homeostasis in biological systems?
○ To increase energy production
○ To maintain internal stability
○ To promote growth
○ To eliminate waste