

## Homeostasis (pp. 72-83)

Organisms develop internal mechanisms, often hormonally-mediated, to maintain relatively constant internal conditions.

A regulated variable must be maintained within a normal range of values, relative to set point or reference level.

List 4 examples of regulated variables (body homeostasis).

- 1) Temperature
- 2) Ion balance and composition of body fluids
- 3) Glucose level in blood plasma
- 4) Blood Pressure

Homeostasis is described as a state of homeostatic balance.

Homeostasis is a negative feedback mechanism.

Regulated variable is restored to normal range following a change deviating from reference level and thus the variable is opposed reversed to return to normal.

Regulated variable is restored to normal range by stimuli receptors and effectors.

A stimulus increases or decreases the activity of receptors or signals from the control centre. Homeostasis returns the regulated variable to the normal range.

In the body, stimuli include environmental, chemical body composition and neural signals from a specific homeostatic pathway. They activate receptors, which signal

growth or inhibit some body component or the stimulus is then the set point.

Receptors transmit an electrical message through neurons of the feedback loop.

Regulated variable homeostatic response and then itself return to normal range.

Reversing the response.

# Homeostasis Directed Reading Guide Answers

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