

# Human Endocrine System Study Guide

## CAPS & Exam Guidelines

- Grade 12 CAPS requires understanding of endocrine vs exocrine glands, hormones, and homeostasis.
- Exam assesses identification of glands, functions of hormones, and negative feedback loops.
- Use correct terminology: 'hormone', 'negative feedback', 'homeostasis'.

## Major Endocrine Glands and Hormones

- Hypothalamus: produces releasing factors controlling pituitary; ADH regulates water balance.
- Pituitary (hypophysis): GH (growth), TSH (thyroid), FSH & LH (reproductive), ACTH (adrenal), prolactin.
- Thyroid: thyroxine (metabolism), calcitonin (calcium balance).
- Parathyroid: PTH raises blood  $Ca^{2+}$ .
- Adrenal cortex: cortisol (stress response), aldosterone (salt balance).
- Adrenal medulla: adrenaline (fight-or-flight).
- Pancreas: insulin (lowers blood glucose), glucagon (raises blood glucose).
- Gonads: ovaries (estrogen, progesterone), testes (testosterone).

## Homeostatic Feedback Mechanisms

- Negative feedback maintains stable conditions.
- Example 1: Blood glucose regulation by insulin and glucagon.
- Example 2: Thyroid hormone regulation via TRH and TSH.
- Example 3: Water balance via ADH secretion by pituitary.
- Example 4: Salt balance via aldosterone secretion.

## Diagrams

Figure 1: Human Endocrine System Diagram

Link: [https://commons.wikimedia.org/wiki/File:Endocrine\\_system\\_diagram.svg](https://commons.wikimedia.org/wiki/File:Endocrine_system_diagram.svg)

Figure 2: Negative Feedback Loop (Thyroid)

Link: [https://commons.wikimedia.org/wiki/File:Thyroid\\_feedback\\_diagram.svg](https://commons.wikimedia.org/wiki/File:Thyroid_feedback_diagram.svg)

## Exam-Style Questions and Tips

1. Define a hormone. Differentiate between endocrine and exocrine glands.
2. Explain negative feedback in blood glucose regulation.
3. Label the following glands on a given diagram: Pituitary, Adrenal, Pancreas, Thyroid.
4. Describe the role of ADH in water balance and its effect if secretion is low.

# Endocrine System Study Guide Grade 12

**Camilla Rothe**



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