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Crash Course BIOLOGY (2012 SERIES) 40 Episode Series Bundle

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Keys and Direct Video Link

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Crash Course Biology (2012) #33: Endocrine System

Name: _____ Date: _____

You can access the video here → <https://youtu.be/WYrBBI4qk5c?list=PLN2L2CpsNK>

1. The _____ system carries chemical messages more slowly than nerves but with longer-lasting effects.
2. Endocrine glands release _____ into the bloodstream to communicate across the body.
3. Unlike endocrine glands, _____ glands send their secretions outside the body.
4. In _____ signaling, hormone molecules act locally and degrade quickly.
5. _____ signaling sends chemical messages within a cell or only to an adjacent cell.
6. Peptide and amine hormones are _____-soluble and bind to receptors on the cell surface.
7. _____ hormones are lipid-soluble and can bind to receptors in the nucleus.
8. The tiny "master gland" sitting under the hypothalamus is the _____ gland.
9. The posterior pituitary secretes oxytocin and _____, which tells kidneys to retain water.
10. Thyroid control is a _____ where rising thyroid hormone reduces TSH release.
11. When thyroid hormone is low, the pituitary releases _____ to stimulate the thyroid.
12. After ACTH stimulation, the adrenal glands release _____ (adrenaline) to drive the stress response.
13. To lower high blood sugar after a meal, the pancreas secretes _____.
14. When blood glucose is low, the pancreas releases _____ to trigger glycogen breakdown.
15. The testes make androgens such as _____, while ovaries make estrogens and progesterone.

Crash Course Biology (2012) #33: Endocrine System - KEY

1. The **endocrine** system carries chemical messages more slowly than nerves but with longer-lasting effects.
2. Endocrine glands release **hormones** into the bloodstream to communicate across the body.
3. Unlike endocrine glands, **exocrine** glands send their secretions outside the body.
4. In **paracrine** signaling, hormone molecules act locally and degrade quickly.
5. **Autocrine** signaling sends chemical messages within a cell or only to an adjacent cell.
6. Peptide and amine hormones are **water-soluble** and bind to receptors on the cell surface.
7. **Steroid** hormones are lipid-soluble and can bind to receptors in the nucleus.
8. The tiny "master gland" sitting under the hypothalamus is the **pituitary** gland.
9. The posterior pituitary secretes oxytocin and **anti-diuretic hormone**, which tells kidneys to retain water.
10. Thyroid control is a **negative feedback loop** where rising thyroid hormone reduces TSH release.
11. When thyroid hormone is low, the pituitary releases **TSH (thyroid-stimulating hormone)** to stimulate the thyroid.
12. After ACTH stimulation, the adrenal glands release **epinephrine (adrenaline)** to drive the stress response.
13. To lower high blood sugar after a meal, the pancreas secretes **insulin**.
14. When blood glucose is low, the pancreas releases **glucagon** to trigger glycogen breakdown.
15. The testes make androgens such as **testosterone**, while ovaries make estrogens and progesterone.

15 Questions

Answer Key Included

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