

## Endocrine System Study Questions II

Dr. J. Lim

1. Which part of the adrenal gland is responsible for the production of epinephrine (adrenaline)?
2. Which segment of the autonomic nervous system stimulates the “fight of flight” response?
3. The thyroid gland regulates metabolic rate by controlling the rate of consumption of which two essential substances?
4. State the action of prolactin in males.
5. A hypersecretion of growth hormone prior to the closing of the epiphyseal plate (someone under 20 years of age) results in which condition?
6. State the principal function of growth hormone in adults.
7. \_\_\_\_\_ blood sugar levels stimulate the release of insulin.
8. Insulin acts to \_\_\_\_\_ blood glucose levels.
9. The combined actions described in questions 7 and 8 are an example of a \_\_\_\_\_ feedback mechanism.
10. Name the region of the pancreas that performs its endocrine function.
11. Describe a potential psychological side effect from the use of anabolic steroids.
12. Describe two common side effects of anabolic steroids on a user’s face and head.

## Endocrine System Study Questions II KEY

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1. Which part of the adrenal gland is responsible for the production of epinephrine (adrenaline)? **medulla**
2. Which segment of the autonomic nervous system stimulates the “fight of flight” response? **Sympathetic NS**
3. The thyroid gland regulates metabolic rate by controlling the rate of consumption of which two essential substances? **Oxygen and glucose**
4. State the action of prolactin in males. **No known function**
5. A hypersecretion of growth hormone prior to the closing of the epiphyseal plate (someone under 20 years of age) results in which condition? **gigantism**
6. State the principal function of growth hormone in adults. **repair**
7. **Elevated (high)** blood sugar levels stimulate the release of insulin.
8. Insulin acts to **lower** blood glucose levels.
9. The combined actions described in questions 7 and 8 are an example of a **negative** feedback mechanism.
10. The endocrine function of the pancreas occurs in the **pancreatic islets**.
11. Describe a potential psychological side effect from the use of anabolic steroids.  
**Delusions, hallucinations and mood swings**
12. Describe two common side effects of anabolic steroids on a user’s face and head.  
**Balding and acne**