

## Test – Lesson 6 – Endocrine System – Answer Key

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1. Which statements about the parathyroid gland are true? (Select all that apply.)

- (A) There are four pairs of parathyroid glands, eight in total.
- (B) Parathyroid hormone raises the density of calcium in the bones.
- (C) The parathyroid glands are under the control of the pituitary gland.
- (D) An overactive parathyroid gland raises the calcium level in the blood.**

2. Symptoms and signs of an overactive thyroid gland (hyperthyroidism) include which of the below? (Select all that apply.)

- (A) unexplained weight loss, diaphoresis (sweating), and constipation
- (B) tachycardia (rapid heart rate), nervousness, and tremor**
- (C) swollen tongue, fever, and diarrhea
- (D) nervousness, increased appetite, and unexplained weight loss**

3. Which hormones are not made by the pituitary gland? (Select all that apply.)

- (A) thyroid stimulating hormone
- (B) insulin stimulating hormone**
- (C) follicular stimulating hormone
- (D) adrenal medullary stimulating hormone**

4. Which statements about the adrenal glands are true? (Select all that apply.)

- (A) The adrenal glands sit atop each kidney.**
- (B) The cortex of each adrenal gland releases adrenaline.
- (C) The medulla of each adrenal gland releases corticosteroids.
- (D) The medulla of each adrenal gland releases epinephrine.**

5. Which statements about the Islets of Langerhans are true? (Select all that apply.)

- (A) The release of digestive enzymes from the pancreas stimulates the release of insulin from the Islets of Langerhans.
- (B) The pituitary gland has no control over the Islets of Langerhans.**
- (C) Insulin stimulates liver and muscle cells to release their stores of glucose into the blood stream.
- (D) Insulin stimulates fat cells to absorb glucose and store it as triglycerides.**

6. Which statements about the posterior pituitary true? (Select all that apply.)

- (A) The release of antidiuretic hormone is controlled by hormones released from the hypothalamus.
- (B) Oxytocin stimulates muscles cells in the uterus and breast.**
- (C) Antidiuretic hormone conserves water by simulating the collecting ducts to absorb water.**
- (D) Antidiuretic hormone conserves water by blocking the entry of water into the glomeruli.

7. Which of the following statements are true? (Select all that apply.)

- (A) Growth hormone acts on the liver.**
- (B) Prolactin causes the breast to produce milk.**
- (C) Natriuretic hormone is released by the heart when the blood volume increases too much.**
- (D) Aldosterone does the opposite of natriuretic hormone.**

8. Which statements about the ovary are true? (Select all that apply.)

- (A) Luteinizing hormone stimulates the release of the egg into the fallopian tube.**
- (B) Estrogen is made by the developing egg.**
- (C) The corpus luteum secretes progesterone.**
- (D) Luteinizing hormone stimulates the egg to make estrogen.

9. Which statements about the testes are true? (Select all that apply.)

- (A) Testosterone helps Sertoli cells to develop into sperm cells.
- (B) Melatonin made in the pineal gland stimulates the production of sperm cells.
- (C) Interstitial-cell stimulating hormone stimulates interstitial cells to make testosterone.**
- (D) Interstitial-cell stimulating hormone is the same as luteinizing hormone in females.**

10. Which statements about these hormones are true? (Select all that apply.)

- (A) Erythropoietin is made in the kidneys.**
- (B) Erythropoietin stimulates the bone marrow to make red blood cells.**
- (C) Fat cells release the hormone resistin which raises the blood sugar levels by opposing insulin.**
- (D) Melanocyte stimulating hormone, made in the pituitary, darkens the skin.**