Name_		

## **Short Answer**

1. Explain AND diagram the feedback loop that controls the regulation of thyroid hormone (T3/T4) concentration in the blood (5 points).

**BIOL/HPS 3752** 

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Quiz 2

2. Compare and contrast the mechanisms of action of lipid-soluble vs. water soluble hormones (4 points).

Completion:
1.List the 3 target tissues for ADH?
2.The role of cyclic AMP in the function of water-soluble hormones is to act as a
3.Lower than normal water concentration in the blood is sensed by osmoreceptors in the which activate the cells that synthesize and release the hormone
4. The glucocorticoid that is most abundant and that is responsible for most of glucocorticoid activity is
5. The parafollicular cells (C cells) of the thyroid gland secrete
6. Acromegaly results from a hypersecretion of which hormone?
7. The anatomical term for the Adams apple is the
8. Exophthalmos is a characteristic sign of
9.Emphysema is a disease that affects the respiratory system in what specific way?
10 . Identify the structure labeled A
MULTIPLE CHOICE
<ul><li>11. Destruction of the beta cells of the pancreas results in:</li><li>A. Type I diabetes mellitus</li><li>B. Type II diabetes mellitus</li><li>C. diabetes insipidus</li><li>D. hyperglycemia</li><li>E. pheochromocytoma</li></ul>
<ul><li>12. The pleura is:</li><li>A. the serous membrane surrounding the lungs</li><li>B. the membrane gases must cross during external respiration</li><li>C. the lining of the alveoli and respiratory passages</li><li>D. the lung tissue itself</li><li>E. both A and B are correct</li></ul>

- 13. The vocal folds are part of the:
- A. nasal cavity
- B. laryngopharynx
- C. trachea
- D. larynx
- E. lungs
- 14. The trachea extends from the:
- A. larynx to vertebra T5
- B. soft palate to the hyoid bone
- C. atlas to vertebra C7
- D. epiglottis to the thyroid cartilage
- E. foramen magnum to vertebra C5.
- 15. The function of the epiglottis is:
- A. to hold the pharynx open during speech
- B. produce surfactant
- C. close off the nasal cavity during swallowing
- D. close of the larynx during swallowing
- E. vibrate to produce sound as it passes over it
- 16. Which pairs of hormones are NOT antagonists?
- A. GHRH- somatostatin
- B. PTH- calcitonin
- C. insulin-glucagon
- D. aldosterone-atrial natriuretic peptide
- E. aldosterone-ADH

## **BONUS:**

Define up-regulation and down regulation as they relate to hormone action. Under what circumstances would you expect to see these phenomena? (3 points added to total quiz score).