- d. Superior pons: Establishes regularity of respiration
- 23. Digestion
 - a. **Mouth:** digestion begins here with alpha-amylase which is in saliva and digests carbohydrates.
 - b. Esophagus: no digestion occurs only peristalsis which move bolus
 - c. **Stomach:** mixes and stores food reducing it to chyme, protein digestion begins here.
 - i. Mucus cells: secrete mucus
 - ii. Chief cells: secrete pepsinogen and precursor for pepsin which begins protein digestion
 - iii. Parietal cells: secrete HCl to lower pH of stomach and raise pH of blood. Also secrete intrinsic factor which helps ileum absorb B12.
 - iv. G cells: secrete gastrin which stimulate parietal cells to secrete HCl
 - d. Small intestine: 90% of absorption and digestion occurs here
 - i. Duodenum
 - ii. Ileum
 - iii. Jejenum
 - Large intestine: water and electrolyte absorption. e.

Anterior Pituitary

- IV. Sigmoid colong V. Rectum FON 6 0 6 8 V. Rectum FON 6 0 6 8 V. Page 6 0 8 V. Page 7 V. Pituitary i. Follicle-stime
- ii. Luteinizing: ovulation; testosterone synthesis
- iii. Adrenocorticotropic (ACTH): stimulate adrenal cortex to make/secrete glucocorticoids
- iv. Thyroid: stimulating: stimulates thyroid to make hormones
- v. Prolactin: stimulate milk production/secretion
- vi. Endorphins: inhibit perception of pain
- vii. Growth hormone: bone/muscle growth
- b. Hypothalamus store in posterior pituitary
 - i. Oxytocin: uterine contraction and milk secretion
 - ii. Vasopressin (ADH): water reabsorption in kidneys
- c. Thyroid
 - i. T3 and T4: metabolic activity
 - ii. Calcitonin: decrease blood calcium level
- d. Parathyroid: increase blood calcium level
- e. Adrenal Cortex
 - i. **Glucocorticoids:** increase blood glucose level and decrease protein synthesis
 - ii. Mineralocorticoids: increase water reabsorption in kidneys