

D-277 Dental Physiology Quiz 5
Monday, June 15, 2009

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Name _____

Student Number _____

(0.25 pts. for each correct answer)

1. Which phase of deglutition is considered to be the most critical phase ?
 - a. Oral phase
 - b. *Pharyngeal phase
 - c. Esophageal phase
 - d. All 3 phases are equally critical

2. Saliva formation at low (unstimulated) flow rates is characterized as having:
 - a. Low K^+ concentrations compared to plasma.
 - b. High Na^+ concentrations compared to plasma.
 - c. *Very low osmolarity compared to saliva from strongly stimulated glands.
 - d. High pH due to high HCO_3^- concentrations compared to plasma.

3. MMC's:
 - a. Function in the fed bowel to propel chyme rapidly to the colon
 - b. Are present only during filling of the small bowel
 - c. *Function to "clean out" the G.I. tract; preparing it for the next meal
 - d. Are inhibited in the presence of the hormone motilin

4. Secondary bile salts & acids are the result of intestinal bacterial action.
 - a. *True
 - b. False

5. Those of you who diligently studied will probably not have tense abdominal muscles and the urge to defecate, unlike those who did not study. What is preventing the non studious individuals from further embarrassing themselves ?
 - a. Increased tension generated by their abdominal muscles.
 - b. Stimulation of the pelvo-pelvic reflex arc
 - c. *Voluntarily increasing tension of their external anal sphincter
 - d. Increased volume in the distal colon

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6. Which one of the following statements concerning HGH is **false** ?
- a. HGH & IGF-1 influence all three basic metabolisms.
 - b. *HGH and IGF-1 are the **ONLY** hormones that are concerned with growth in a child.
 - c. IGF-1 can feed back to the hypothalamus and stimulate secretion of somatostatin.
 - d. HGH increases development of progenitor cells.
7. Which statement is **True** concerning a patient who presents with lower than normal plasma concentrations of cortisol and corticosterone, vascular hypotension, higher than normal levels of CRH (Corticotropin Releasing Hormone) and a well tanned skin.
- a. Cushing's disease due to a pituitary tumor.
 - b. *Addison's disease, pathology in the adrenal cortex.
 - c. Cushing's syndrome due to adrenal hyperplasia.
 - d. Addison's disease due to hyposecretion of anterior pituitary hyposecretion of ACTH.
8. In adult females, which of the following is necessary to trigger ovulation ?
- a. Low [estrogen]_{plasma} concentrations.
 - b. A 1 to 1 ratio of [FSH]_{plasma} and [LH]_{plasma}.
 - c. Establishment of a negative feedback loop of estrogen on FSH & LH secretions.
 - e. *The rapid rise of [LH]_{plasma} (the LH surge).
9. Which of the following processes takes place **only within** the follicular cells of the thyroid gland and **not in** the colloid ?
- a. Coupling of MIT & DIT to form T₃.
 - b. Organification of iodide (I₂).
 - c. Hydrolysis of colloid
 - d. *Concentration of I⁻ to 25 times that of [I⁻]_{plasma}