

Candidate Name: xxxx

**[Basic science section]**

**Which is the following is true regarding pancreatic secretion.**

- A. When first synthesized in the pancreatic cells, proteolytic digestive enzymes are in their enzymatically active forms (e.g. trypsinogen, chymotrypsinogen) to avoid self digestion.
- B. The same cells that secrete proteolytic enzymes into the acini of the pancreas simultaneously secrete trypsin inhibitor to avoid self digestion.
- C. Bicarbonate ions are secreted mainly by the pancreatic acini that serves to neutralize the hydrochloric acid from the stomach.
- D. Three basic stimuli in pancreatic secretion include epinephrine, cholecystokinin, and secretin.

Reference: Hall, John E. Guyton and Hall Textbook of Medical Physiology: Chapter 65 Secretory Functions of the Alimentary Tract. 13th edition. Philadelphia, PA: Elsevier, 2016. Pages 825-826.

Correct answer: B

[Clinical Science Section]

A 3 year old female spayed domestic shorthair presented to your hospital for acute onset of vomiting, lethargy, weight loss, and anorexia. Owner stated that she has had anorexia for 5-7 days prior to visit.

Physical examination revealed hypersalivation, hepatomegaly, and mild jaundice.

Lab results: ALP 1020, ALT 345, GGT 4, T-bilirubin 8.9, Total T4 2.3

Which of the following is the most likely diagnosis?

- A. Chronic hepatitis
- B. Hyperthyroidism
- C. Hepatic lipidosis
- D. Acute hepatitis

Reference: Stephen J. Ettinger, Edward C. Feldman, Etienne Côté. Textbook of Veterinary Internal Medicine : Diseases of the Dog and Cat. 8th edition. St. Louis, Missouri: Elsevier, 2017. Page 4040-4042.

Correct answer: C