Digestive System Practice Quiz

Circle the correct answer choice or fill in the blank. 1. Which of the following organs has 3 layers of smooth muscle in its muscularis externa? D. large intestine A. small intestine B. esophagus C. stomach E. rectum 2. Chemical digestion of carbohydrates begins in the A. esophagus B. stomach C. duodenum D. oral cavity E. jejunum 3. The enzyme which begins carbohydrate digestion is named ______. 4. _____ is produced by the _____ and released from the _____ into the _____, aiding the digestion of fats through emulsification, which increases the surface area for the enzyme ______ to attack the triglyceride molecules. 5. Most of the nutrient absorption along the alimentary canal occurs in the A. ascending colon B. stomach C. jejunum D. ileum E. cecum 6. The taeniae coli of the large intestine is formed by the layer of the muscularis externa. 7. The small intestine possesses permanent folds along its length known as A. plicae circulares B. haustra C. rugae D. villi E. intestinal crypts 8. The G cells of the stomach secrete the hormone _____, which stimulates the _____ and _____ cells.

9. The ______ cells secrete ______, the enzyme precursor which begins the chemical digestion of protein.

11. The _____ cells also secrete _____ which facilitates the absorption of vitamin B₁₂ in the ileum.

12. The specific tissue type of the submucosa is

A. areolar CT B. dense irregular CT C. reticular CT D. smooth muscle E. adipose

13. The muscularis externa of the upper third of the esophagus has primarily

A. skeletal muscle B. smooth muscle C. both skeletal and smooth muscle

14. The three major enzymes secreted by the pancreas into the duodenum are

_____, ____, and _____(inactive form).

15. Which of the following structures secures the small intestine to the posterior abdominal wall?

A. greater omentum B. lesser omentum C. mesocolon D. serosa E. mesentery proper

16. The hormone _______ stimulates the release of pancreatic enzymes, buffers, and bile.

17. Nutrient-rich, oxygen-poor blood arrives at the liver through the ______

while oxygen-rich blood arrives via the ______.

18. In which region of the gastrointestinal tract are Peyer's patches most common?

A. stomach B. duodenum C. jejunum D. ileum E. sigmoid colon

Answer Key

- 1. C. stomach
- 2. D. oral cavity
- 3. salivary amylase
- 4. Bile, liver/hepatocytes, gallbladder, duodenum, pancreatic lipase
- 5. C. jejunum
- 6. longitudinal
- 7. A. plicae circulares
- 8. gastrin, chief, parietal
- 9. chief, pepsinogen
- 10. pepsinogen, hydrochloric acid, parietal
- 11. parietal, intrinsic factor
- 12. B. dense irregular CT
- 13. A. skeletal muscle
- 14. pancreatic lipase, pancreatic amylase, trypsinogen
- 15. E. mesentery proper
- 16. cholecystokinin (CCK)
- 17. hepatic portal vein, hepatic artery proper
- 18. D. ileum