

NAME \_\_\_\_\_ LAB TIME/DATE \_\_\_\_\_

# Anatomy of the Digestive System

## REVIEW SHEET exercise 38

### General Histological Plan of the Alimentary Canal

1. The general anatomical features of the digestive tube are listed below. Fill in the table to complete the information.

Wall layer	Subdivisions of the layer (if applicable)	Major functions
mucosa	1) epithelium 2) lamina propria 3) muscularis mucosae	absorption secretion
submucosa	(not applicable)	vascular supply for mucosa; protection
muscularis externa	1) circular layer 2) longitudinal layer	churning, mixing, propulsion of food along the tract
serosa or adventitia	(not applicable)	protection

### Organs of the Alimentary Canal

2. The tubelike digestive system canal that extends from the mouth to the anus is the alimentary canal.
3. How is the muscularis externa of the stomach modified? It has a third, obliquely oriented muscle layer.

How does this modification relate to the function of the stomach? Digested churning activity occurs here.

4. What transition in epithelium type exists at the gastroesophageal junction? Changes from stratified squamous (esophagus) to simple columnar (stomach).

How do the epithelia of these two organs relate to their specific functions? The esophagus is subjected to constant abrasion (stratified squamous is well adapted for this). The stomach has secretory (and some absorptive) functions.

5. Differentiate between the colon and the large intestine. The large intestine includes the colon, but also includes the cecum, vermiform appendix, rectum, and anal canal.

# Answer Key For Ch 38 Digestive Excretory

**Eric Strauss, Marylin Lisowski**



## **Answer Key For Ch 38 Digestive Excretory:**

**Biology**, 1998      **Holt Biology** Rob DeSalle, Holt Rinehart and Winston, 2008 Holt Biology Student Edition 2008

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