

Download File PDF Anatomy Of The Digestive System Review Sheet

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REVIEW SHEET **38**
EXERCISE

Anatomy of the Digestive System

General Histological Plan of the Alimentary Canal

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

| Wall layer | Subdivisions of the layer (if applicable) | Major functions |
|----------------------|--|---|
| musosa | 1) epithelium; 2) lamina propria; 3) muscularis mucosa | 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 and anchoring to the abdomen; reduction of friction for abdominal organs to move |

Organs of the Alimentary Canal

2. The tubelike digestive system canal that extends from the mouth to the anus is known as the alimentary canal or the gastrointestinal (GI) tract.

3. How is the muscularis externa of the stomach modified? It has a third (oblique) oriented muscle layer.

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

4. What transition in epithelial type exists at the gastroesophageal junction? Changes from stratified squamous (roughly) to simple columnar (smooth).

How do the epithelia of these two regions relate to their specific functions? The roughness is related to increase absorption, smooth epithelium is not adapted for this. The smooth has sensory and motor properties (secretion and to have pressure from food)

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

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