

# REVIEW SHEET Functional Anatomy of the Digestive System

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## General Histologic Plan of the Alimentary Canal

1. The general histologic plan of the alimentary canal is based on the following principles:

| General Histologic Plan of the Alimentary Canal |                                                    |                                                                        |
|-------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------|
| Wall Layer                                      | Structure of the Layer in the Alimentary Canal     | Functions                                                              |
| Mucosa                                          | Epithelium<br>Lamina propria<br>Muscularis mucosae | Secretion of digestive enzymes<br>Absorption of nutrients              |
| Submucosa                                       | Connective tissue                                  | Supports the mucosa and provides a pathway for blood and lymph vessels |
| Muscularis propria                              | Smooth muscle                                      | Peristalsis and segmentation                                           |
| Serosa or adventitia                            | Connective tissue                                  | Protection and support                                                 |

## Organs of the Alimentary Canal

2. The alimentary canal is divided into the following organs:

3. The organs of the alimentary canal are:

The organs of the alimentary canal are the mouth, pharynx, esophagus, stomach, small intestine, large intestine, and rectum. The mouth is the site of ingestion and initial digestion. The pharynx is the site of swallowing. The esophagus is the site of transport of food to the stomach. The stomach is the site of storage and initial digestion. The small intestine is the site of most digestion and absorption. The large intestine is the site of water and electrolyte absorption. The rectum is the site of storage and elimination of feces.

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**Peter Zao, Timothy N. Stabler**



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