

Name:

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## **DIGESTIVE SYSTEM Study Guide** **Chapter 14 Marieb text**

\* = page number in Marieb textbook

### Overview

1) List the organs of the alimentary canal in order from beginning to end. \*411

**Oral cavity → pharynx → esophagus → stomach → small intestine → large intestine**

2) What are the 6 major functions of the gastrointestinal tract? *Briefly* define each. \*424-425

**Ingestion: taking food into oral cavity**

**Propulsion: movement of food from one organ to next**

**Chemical digestion: breaking down food with enzymes**

**Mechanical digestion: breaking down food physically (ex: teeth, muscle layers in stomach)**

**Absorption: taking nutrients into blood**

**Defecation: removal of materials cannot digest**

3) Name the 4 tissue layers of the GI tract from innermost to outermost, and describe the function of each.  
\*415-417

**Mucosa: produces mucus to reduce friction**

**Submucosa: contains blood & nerves**

**Muscularis externa: layers of smooth muscle for peristalsis**

**Serosa: protection of organs to prevent friction**

4) What is peristalsis? \*424, 427

**Alternating contraction and relaxation of smooth muscles to move food down digestive tract**

### Structure and Functions

5) What is the function of the epiglottis during swallowing? \*427

**Covers the airway so food doesn't get down respiratory tract**

6) Which organ of the digestive system is the longest? Why is this (what processes happen here)? \*418

**Small intestine**

**Lots of digestion and 90% of absorption happens here!**

7) What is the function of the mucus secreted by glands in the stomach and small intestine? \*418

**To prevent friction so food can move down the digestive tract**

**And**

**\*protects organs against acidic gastric juices**

8) What are the three portions of the stomach? In what portion does the most digestive activity occur? \*417

**Fundus, body, pylorus**

**\*most digestion happens in funnel shaped PYLORUS**

# Food For Today Study Guide Answer

**Annelies Wilder-Smith**



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