

Digestive System

The following information about the digestive system can be answered using either your book (chapter 12 Florence or Chapter 15 Lance), the link above, or a Google search.

Answer the questions (1-3) below about each of the following parts of the digestive system (alimentary canal = long tube in which food travels):

1. What is the main function of this part of the alimentary canal (the answer digestion is not specific enough)? For example, what is the main function of the mouth? The esophagus, etc...
2. What chemicals/enzymes are involved here (some might not have)? An example is salivary amylase in the mouth breaks down complex carbohydrates like starch into simple sugars. Some of the parts like teeth and sphincters might not directly have chemicals involved.
3. What mechanical processes are involved here? An example is mastication (smashing up) of food by teeth in the mouth. Another example is peristalsis (squeezing) by esophagus.

-mouth

1. Main function?
2. Chemicals/enzymes?
3. Mechanical processes?

-esophagus

1. Main function?
2. Chemicals/enzymes?
- 3.

-cardiac sphincter

1. Main function?
2. Chemicals/enzymes?
3. Mechanical processes?

-stomach (include rugae)

1. Main function?

2. Chemicals/enzymes?
3. Mechanical processes?

-pyloric sphincter

1. Main function?
2. Chemicals/enzymes?
3. Mechanical processes?

-small intestine (include microvilli)

1. Main function?
2. Chemicals/enzymes?
3. Mechanical processes?

-appendix

1. Main function?
2. Chemicals/enzymes?
3. Mechanical processes?

-large intestine

1. Main function?
2. Chemicals/enzymes?
3. Mechanical processes?

-rectum

1. Main function?
2. Chemicals/enzymes?
- 3.

-anal sphincter

1. Main function?
2. Chemicals/enzymes?
3. Mechanical processes?

4. Answer the questions (a-b) below about the following accessory organs of the digestive system. The accessory organs aid in digestion but do not carry the food.

-liver

- a. How does this organ aid in digestion?
- b. What digestive enzyme(s) does this organ produce or hold and what is its function?

-pancreas

- a. How does this organ aid in digestion?
- b What digestive enzyme(s) does this organ produce or hold and what is its function?

-gall bladder

- a. How does this organ aid in digestion?
- b What digestive enzyme(s) does this organ produce or hold and what is its function?