Digestive System Self Study

Name :_____

List five functions of the digestive system

1. Ingestion
2. _____
3. _____
4. _____
5. _____

Name the two classifications of structures present in the digestive system

1. _____
2. _____

Name the following digestive system linings:

1. This layer covers the wall of the abdominal cavity _____
2. This layer covers the organs contained in the abdominal cavity

   _____
3. This layer extends from the greater curvature of the stomach and drapes over the abdominal organs _____.
4. This layer attaches to the small intestines _____.

List the appropriate salivary gland:

1. This is the largest salivary gland _____.
2. This salivary gland is located under the tongue _____.
3. This salivary gland secrets mucin and ptyalin _____.

List the functions of each enzyme:

1. Salivary amylase _____.
2. Mucin _____.
3. Ptyalin_____.
4. Mucus_____.

List the components of the alimentary canal from the os to the anus

_____

_____

_____

_____

_____

_____

What are two functions of the tongue?

1. _____
2. _____

What is another name for chewing?_____

What structure prohibits food from entering the glottic

opening?_____

List the four layers of the stomach

1. _____
2. _____
3. _____
4. _____

What opening in the diaphragm does the stomach pass through?

_____

Name the two sphincters of the stomach and describe their location

1. _____
2. _____

Name the four regions of the stomach

1. _____
2. _____
3. _____
4. Pyloris

What allows the stomach to expand during times of overindulgence?_____

Name the four type of cells that make up gastric pits/ glands

1. _____
2. _____
3. _____
4. _____

List in the same order as above, the juices secreted by that gland and its function

1. _____
2. _____
3. _____
4. _____

Name in order the three divisions of the small intestine and list its relative size

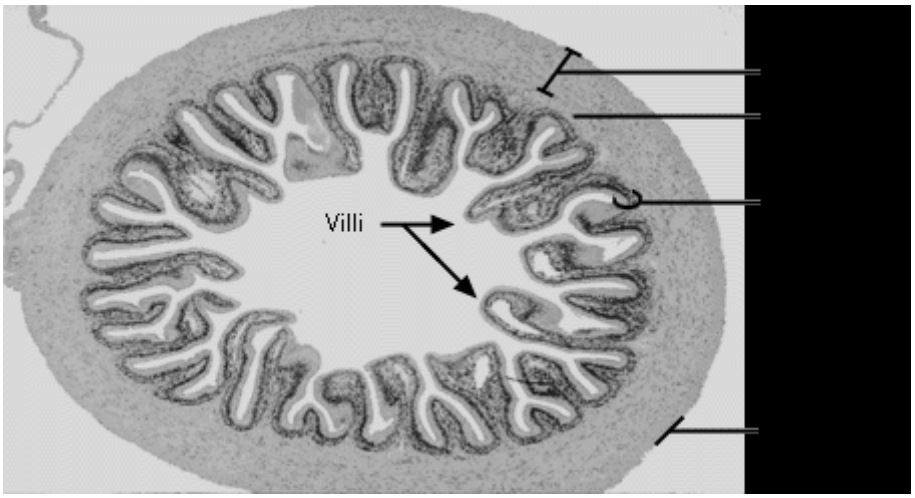
1. _____
2. _____
3. _____

What is the name of the region where the pancreas and liver excrete enzymes into the small intestine? _____

What is the name of the sphincter that stops pancreatic enzymes from flowing freely into the small intestine? _____

Name the enzyme that is responsible for breaking down each polymeric organic compound and list the monomeric units; The last three you may need to reference other materials.

1. Protein _____
2. Starch _____
3. Fats_____
4. Maltose_____
5. Lactose _____
6. Sucrose _____



Why do think the small intestine contains villi?

_____

_____

Why do pancreatic juices contain bicarbonate? _____

_____

Enteroendocrine cells of the small intestine release two hormones; secretin and cholecystokinin. What are their functions? _____

_____

_____

What is the primary pigment of bile? _____

Where does that pigment come from? _____

Describe the passages that bile must flow through after it is made in the liver until it enters the small intestine

1. _____
2. _____
3. _____

What happens if a stone blocks the flow of bile into the small intestine? _____

_____

List five functions of the liver:

1. _____
2. _____
3. _____
4. _____
5. _____

What is the primary purpose of the gall bladder? _____

_____

What three substances are absorbed in the large intestine?

1. _____
2. _____
3. _____

What is the name of the connection between the small intestine and large intestine?

_____

Describe the morphological characteristics of the colon

1. Ascending colon
2. _____
3. _____
4. _____
5. _____
6. _____
7. Rectum

Name the region of the alimentary canal that is responsible for the listed function

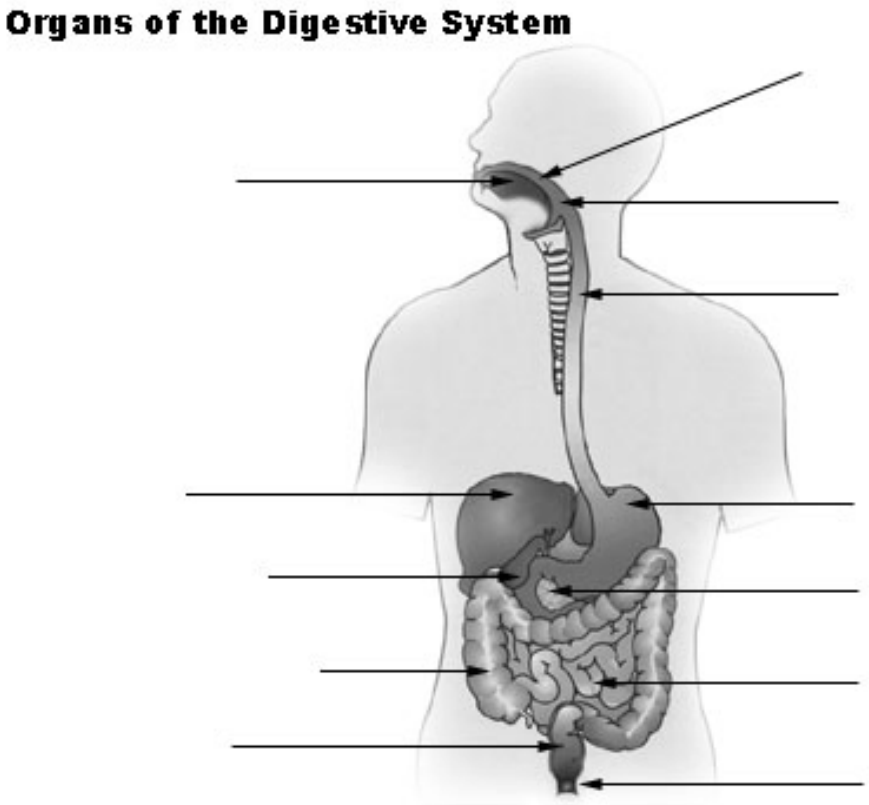
1. Mastication _____
2. Beginning of carbohydrate digestion _____
3. Beginning of protein digestion _____
4. Water absorption _____
5. Deglutition _____
6. Fat digestion _____
7. Amino acid absorption _____
8. Glucose absorption _____

9. Glycerol absorption _____

10. Production of flatus _____

11. Fecal formation _____

Please label the organs in the picture below:



Web Activities:

Please view the following animation

http://www.biologyinmotion.com/bile/index.html

Please view the following animation and answer the questions on line

http://highered.mcgraw-hill.com/sites/0072495855/student_view0/chapter26/animation__organs_of_digestion.html