

Name: _____

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Biology 12 - Digestion Study Guide

1. a) What is digestion? b) What is the difference between digestion and absorption? c) Between chemical and mechanical digestion?
2. Compare the composition of the food we eat with the molecules that our cells actually use.
3. a) How many teeth do adults have? b) What are the four types of teeth and their functions?
4. Use your tongue to locate at least one of the salivary enzymes on the inside of your mouth. How many pairs of salivary glands do you have?
5. a) What is a hydrolytic enzyme? b) What is the enzyme in saliva?
6. a) What is the substrate of this enzyme? b) What are the products? c) Write the overall reaction as a chemical equation.
7. Differentiate between what gets mechanically digested in the mouth and what gets chemically digested.
8. List the three main events that occur during swallowing. Help your explanation by using a labelled diagram.
9. Describe the process of **peristalsis** in the esophagus? How can a combination of circular and longitudinal muscles cause this action? Again, using a diagram will help your explanation.
10. What are the functions of the stomach? Be specific!
11. a) What is gastric juice? b) Where exactly is it produced? c) List the three main ingredients of gastric juice d) How is it activated?
12. What is the function of the following in digestion: a) pepsin b) water
13. a) How come, if your stomach is full of acid and protein-digesting enzymes, doesn't it digest itself? b) What is an ulcer, and what causes them?
14. How is the **structure** of the stomach **related** to its **function**?
15. Give a one sentence description, using your own words, of the function of the following digestive components:

Name	Function
1. mouth	
2. pharynx	
3. epiglottis	
4. cardiac sphincter	
5. esophagus	
6. pepsinogen	

DIGESTION BASICS

16.	Majority of digestion takes place in this organ	
17.	Length of this organ.	
18.	Three parts of this organ are called:	1
		2
		3
19.	How long is duodenum?	
20.	What controls flow of material into duodenum?	
21.	What is this material that enters the duodenum called?	
22.	What is main role of duodenum in digestion?	
23.	What two organs produce secretions that end up in duodenum?	1
		2
24.	Liver produces what?	
25.	Why is it greenish in colour?	
26.	Where is this substance stored?	
27.	What does an emulsifying agent do?	
28.	What do bile salts do?	
29.	What sodium compound does pancreatic juice contain?	
30.	What does this substance do?	

Digestion Study Guide Key

Arshad Iqbal



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