UNIT 10 - DIGESTIVE SYSTEM

ACTIVITY - Digestive Worksheet

Period
s between chemical and mechanical digestion.
e alimentary canal and accessory organs. Give examples of
alivary glands.
oth regions in order from the most superficial to the deepest: root crown neck
oth structures in order from the most superficial to the pulp cavity enamel dentin
oth structures in order from the hardest substance to the pulp cavity enamel dentin or the gums?

9. Describe the action of salivary amylase.

10. What term means		
a. chewing:		
b. swallowing:		
c. gastric mixing movements:		
e. liquid paste formed by food and gastric uice:		
f. wave-like smooth muscle contractions that move food	:	
g. folds in the stomach that allow it to stretch:		
11. Answer the following questions about the stomach.		
a. The stomach connects to the esophagus at the		
b. The stomach connects to the duodenum at the		
b. The stemach connects to the adodenant at the		·
12. Answer the following questions about the pancreas.		
		cells.
b. Pancreatic juices flow through the pancreatic duct an	a into the	
 ·		
13. Answer the following questions about the gallbladder:		
a. The gallbladder is located on the underside of the		·
a. The gallbladder is located on the underside of the b. The gallbladder and		bile.
 a. The gallbladder is located on the underside of the b. The gallbladder and c. The bile flows through the 		bile.
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16. What are the two major functions of the small intestine? a.
b.
17. Name the structures (in order) of the large intestine.
b.
C.
d.
e.
f.
g.
h.
18. List three major functions of the large intestine. a.
b.
C.

WORKSHEET - Digestive Review - KEY

- 1. Chemical digestion occurs when the food substances (carbohydrates, proteins, and lipids) are broken down into their building blocks (glucose, amino acids, and fatty acids and glycerol.
 - Mechanical digestion occurs when the food substances are broken down into smaller pieces.
- 2. The alimentary canal is also known as the GI tract. Food directly passes through these organs as it is moved along and processed. Examples include the mouth, esophagus, stomach, small and large intestines.
 - The accessory organs provide additional enzymes, bile, other fluids, and surface area to aid in both the chemical and mechanical digestion of food.
- 3. The three pairs of salivary glands are: parotid, sublingual, and submaxillary.
- 4. Saliva has several functions including to mix with food to form a ball or food or bolus, to help maintain the pH of the mouth, to help clean the teeth, and to chemically digest starch.
- 5. From the most superficial to the deepest: crown, neck, root.
- 6. From the most superficial to the deepest: enamel, dentin, pulp cavity.
- 7. From the hardest to the softest: enamel, dentin, pulp cavity.
- 8. Gingiva
- 9. Salivary amylase breaks down starch (amylase) into maltose molecules. (Maltose is a disaccharide).
- 10. A. mastication
 - b. dealutition
 - c. haustral churning
 - d. bolus
 - e. chyme
 - f. peristalsis
 - g. rugae
- 11. a. cardiac region
 - b. pyloric region

- 12. a. acini
 - b. Small intestine (duodenum)
- 13. a. liver
 - b. stores and concentrates
 - c. common bile duct, emulsifies
 - d. bilirubin
- 14. a. duodenum
 - b. jejunum
 - c. ileum
- 15. villi and microvilli
- 16. a. complete digestion of all nutrients
 - b. absorption of nutrients
- 17. a. cecum
 - b. ascending colon
 - c. transverse colon
 - d. descending colon
 - e. sigmoid colon
 - f. rectum
 - g. anal canal
 - h. anus
- 18. a. absorption of water
 - b. absorption of electrolytes
 - c. formation of wastes
 - d. production of vitamin K
 - e. elimination of solid wastes