Human Digestive System

1. What is the primary function of the human digestive system?

2. Where does most chemical digestion occur in the human digestive system?

o A. Transporting oxygen

o C. Breaking down food

o D. Storing vitamins

 \circ B. Producing white blood cells

o E. Protecting against infections

	0	A. Stomach
	0	B. Small intestine
	0	C. Large intestine
	0	D. Mouth
	0	E. Esophagus
3.	What e	nzyme in saliva helps break down carbohydrates?
	0	A. Pepsin
	0	B. Lipase
	0	C. Trypsin
	0	D. Amylase
	0	E. Lactase
4.	Which	organ produces bile to aid in fat digestion?
	0	A. Stomach
	0	B. Gallbladder
	0	C. Liver
	0	D. Pancreas
	0	E. Small intestine
5.	The ma	in site of water absorption in the digestive system is:
	0	A. Small intestine
	0	B. Large intestine
	0	C. Stomach
	0	D. Liver
	0	E. Esophagus

6.	6. In which part of the digestive system does protein digestion begin?		
	0	A. Mouth	
	0	B. Esophagus	
	0	C. Stomach	
	0	D. Small intestine	
	0	E. Large intestine	
7.	Which	of the following is not a function of the liver?	
	0	A. Producing bile	
	0	B. Detoxifying chemicals	
	0	C. Storing glucose	
	0	D. Breaking down proteins	
	0	E. Filtering blood	
8.	The en	zyme pepsin functions optimally in the stomach due to the:	
	0	A. High pH	
	0	B. Presence of mucus	
	0	C. Low pH	
	0	D. Absence of bile	
	0	E. Neutral pH	
9.	Which	part of the digestive system connects the mouth to the stomach?	
	0	A. Small intestine	
	0	B. Large intestine	
	0	C. Trachea	
	0	D. Esophagus	
	0	E. Pharynx	
10. What is the primary function of the villi in the small intestine?			
	0	A. Move food through the intestines	
	0	B. Increase surface area for absorption	
	0	C. Release digestive enzymes	

o D. Absorb water

o E. Produce hormones

11. What is the primary role of the gallbladder?		
0	A. Producing bile	
0	B. Storing bile	
0	C. Filtering blood	
0	D. Absorbing nutrients	
0	E. Digesting carbohydrates	
12. The fi	rst part of the small intestine where most chemical digestion takes place is the:	
0	A. Jejunum	
0	B. Ileum	
0	C. Duodenum	
0	D. Colon	
0	E. Rectum	
13. What	structure prevents food from entering the trachea during swallowing?	
0	A. Esophagus	
0	B. Epiglottis	
0	C. Larynx	
0	D. Uvula	
0	E. Pharynx	
14. Which	substance in the stomach helps to kill bacteria in food?	
0	A. Mucus	
0	B. Bile	
0	C. Hydrochloric acid	
0	D. Amylase	
0	E. Bicarbonate	
15. Where are the enzymes lipase and trypsin primarily secreted?		
0	A. Stomach	
0	B. Small intestine	
0	C. Liver	
0	D. Pancreas	
0	E. Large intestine	

16. Which section of the small intestine is primarily responsible for nutrient absorption?		
o A. Duodenum		
o B. Ileum		
o C. Colon		
o D. Rectum		
o E. Pancreas		
17. Which of the following structures releases bicarbonate to neutralize stomach acid in the small intestine?		
o A. Liver		
o B. Gallbladder		
o C. Stomach		
o D. Pancreas		
o E. Large intestine		
18. What is the main function of hydrochloric acid in the stomach?		
o A. Breaking down proteins		
o B. Neutralizing acids		
o C. Lubricating food		
o D. Emulsifying fats		
o E. Absorbing nutrients		
19. The rhythmic contraction of muscles to propel food through the digestive system is called:		
o A. Segmentation		
o B. Peristalsis		
o C. Assimilation		
o D. Diffusion		
o E. Emulsification		
20. The enzyme responsible for initiating protein digestion in the stomach is:		
o A. Amylase		
o B. Lipase		
o C. Pepsin		
o D. Trypsin		
o E. Lactase		

21. Which part of the digestive system contains a large population of bacteria that aids in the breakdown of undigested material?		
0	A. Stomach	
0	B. Small intestine	
0	C. Liver	
0	D. Large intestine	
0	E. Esophagus	
22. In whi	ch part of the digestive system does the absorption of vitamin B12 primarily occur?	
0	A. Mouth	
0	B. Stomach	
0	C. Ileum	
0	D. Colon	
0	E. Duodenum	
23. Which absorp	of the following structures increases the surface area of the small intestine for nutrient ption?	
0	A. Rugae	
0	B. Villi	
0	C. Microvilli	
0	D. Lacteals	
0	E. Epiglottis	
24. What is the function of bile salts in digestion?		
0	A. To break down proteins	
0	B. To emulsify fats	
0	C. To neutralize stomach acid	
0	D. To absorb sugars	
0	E. To digest starch	
25. Where is the majority of fat digestion completed in the digestive system?		
0	A. Mouth	
0	B. Stomach	
0	C. Large intestine	
0	D. Small intestine	
0	E. Esophagus	

26. Whic	6. Which of the following vitamins requires fat for its absorption?	
0	A. Vitamin B12	
0	B. Vitamin C	
0	C. Vitamin D	
0	D. Folic acid	
0	E. Vitamin B6	
	h hormone is released in response to acidic chyme entering the small intestine and lates the release of bicarbonate?	
0	A. Gastrin	
0	B. Secretin	
0	C. Pepsinogen	
0	D. Insulin	
0	E. Amylase	
28. Which layer of the digestive tract is responsible for producing mucus that protects the lining of the stomach?		
0	A. Serosa	
0	B. Muscularis	
0	C. Submucosa	
0	D. Mucosa	
0	E. Lumen	
29. What	is the primary function of lacteals in the villi of the small intestine?	
0	A. Absorbing water	
0	B. Absorbing fats	
0	C. Producing mucus	
0	D. Absorbing glucose	
0	E. Producing digestive enzymes	
30. Whic	h of the following substances is absorbed directly into the bloodstream from the stomach?	
0	A. Proteins	
0	B. Carbohydrates	
0	C. Lipids	
0	D. Alcohol	
0	E. Fiber	

31. What part of the brain controls the involuntary swallowing reflex?		
o A. Cerebrum		
o B. Cerebellum		
o C. Hypothalamus		
o D. Medulla oblongata		
o E. Hippocampus		
32. The pH of the stomach is typically:		
o A. Around 2		
o B. Around 5		
o C. Around 7		
o D. Around 8		
o E. Around 10		
33. Which hormone stimulates the production of stomach acid?		
o A. Gastrin		
o B. Secretin		
o C. CCK (Cholecystokinin)		
o D. Glucagon		
o E. Insulin		
34. What part of the digestive system is primarily responsible for absorbing water and electrolytes?		
o A. Mouth		
o B. Stomach		
o C. Large intestine		
o D. Small intestine		
o E. Pancreas		
35. The process by which nutrients move from the intestines into the blood or lymph is known as:		
o A. Digestion		
o B. Absorption		
o C. Secretion		
o D. Peristalsis		
o E. Defecation		

36. Which enzyme is necessary for digesting lactose, the sugar found in milk?		
0	A. Amylase	
0	B. Lipase	
0	C. Maltase	
0	D. Lactase	
0	E. Sucrase	
37. The innermost layer of the gastrointestinal tract, which comes into direct contact with food called:		
0	A. Serosa	
0	B. Muscularis	
0	C. Submucosa	
0	D. Mucosa	
0	E. Adventitia	
38. Which	enzyme is secreted by the pancreas and breaks down fats?	
0	A. Amylase	
0	B. Trypsin	
0	C. Lipase	
0	D. Pepsin	
0	E. Sucrase	
39. Which structure of the digestive system is primarily responsible for the fermentation of undigested food?		
0	A. Stomach	
0	B. Small intestine	
0	C. Large intestine	
0	D. Pancreas	
0	E. Esophagus	
40. Which	part of the digestive system stores bile produced by the liver?	
0	A. Stomach	
0	B. Duodenum	
0	C. Large intestine	
0	D. Gallbladder	
0	E. Pancreas	

41. What is the primary function of gastrin in the digestive system?		
0	A. Stimulating bile production	
0	B. Releasing digestive enzymes	
0	C. Stimulating stomach acid secretion	
0	D. Neutralizing stomach acids	
0	E. Absorbing nutrients	
42. Which	of the following is the longest part of the small intestine?	
0	A. Duodenum	
0	B. Ileum	
0	C. Jejunum	
0	D. Colon	
0	E. Rectum	
43. What	type of cells in the stomach lining release hydrochloric acid?	
0	A. Chief cells	
0	B. Parietal cells	
0	C. Goblet cells	
0	D. Acinar cells	
0	E. Enterocytes	
44. Which	of the following structures does not directly produce digestive enzymes?	
0	A. Pancreas	
0	B. Stomach	
0	C. Liver	
0	D. Small intestine	
0	E. Salivary glands	
45. The term "chyme" refers to:		
0	A. Food broken down in the mouth	
0	B. A mixture of partially digested food and gastric juices	
0	C. The muscular action of the stomach	

 \circ D. The bile produced by the liver

o E. The undigested material in the large intestine

46. Which nutrient type begins digestion in the mouth?		
	0	A. Proteins
	0	B. Fats
	0	C. Starches
	0	D. Fiber
	0	E. Vitamins
47	7. What is	s the role of the hormone cholecystokinin (CCK) in digestion?
	0	A. Increasing stomach acid
	0	B. Stimulating bile release from the gallbladder
	0	C. Absorbing vitamins
	0	D. Neutralizing stomach acid
	0	E. Breaking down proteins
48	3. Which	of the following is the correct sequence of regions in the large intestine?
	0	A. Ileum, colon, rectum
	0	B. Cecum, colon, rectum
	0	C. Rectum, colon, cecum
	0	D. Duodenum, colon, anus
	0	E. Jejunum, ileum, colon
49	9. Where	does the digestion of proteins primarily take place?
	0	A. Mouth
	0	B. Esophagus
	0	C. Stomach
	0	D. Colon
	0	E. Rectum
50). Which	of the following vitamins is synthesized by bacteria in the large intestine?
	0	A. Vitamin C
	0	B. Vitamin B6
	0	C. Vitamin D
	0	D. Vitamin B12
	0	E. Vitamin K