

Digestive system review questions

1. List the parts of the alimentary canal (gastrointestinal tract).
2. List the accessory digestive organs.
3. Describe peristalsis.
4. What is the difference between peristalsis and segmentation?
5. Define chemical digestion.
6. Define absorption.
7. What types of stimuli do sensors in the GI tract respond to?
8. What are intrinsic and extrinsic controls of digestive activity?
9. Describe the structure of the peritoneum.
10. What is contained in the peritoneal cavity?
11. What is a mesentery?
12. What are retroperitoneal organs?
13. What is splanchnic circulation?
14. What are the four tunics (layers) of the alimentary canal?
15. What are the main functions of the mucosa?
16. What are the three sublayers of the mucosa?
17. Describe the structure of the submucosa.
18. Describe the structure of the muscularis.
19. What is the difference between serosa and adventitia?
20. What are the two divisions of the enteric nervous system of the alimentary canal?
21. What is the location and function of the submucosal plexus?
22. What is the location and function of the myenteric plexus?
23. List the food passages between the oral cavity and the stomach.
24. What is the function of the hard palate?
25. What is the function of the soft palate?
26. Describe the position and function of the salivary glands.
27. Describe the composition of saliva.
28. What is the dental formula for permanent teeth?
29. Describe the structure of a tooth.
30. What is the esophageal hiatus?
31. What is the function of the epiglottis in swallowing?
32. What are the two mesenteries of the stomach?
33. Describe the autonomic innervation of the stomach.
34. Describe the structure and function of the epithelial lining of the stomach.
35. List the four types of cells in gastric pits and their products.
36. Where is rennin produced? What is its function?
37. Describe the cephalic phase of gastric juice secretion.
38. Describe the gastric phase of gastric juice secretion.
39. Describe the intestinal phase of gastric juice secretion.
40. Where is secretin produced? What is its action?
41. Where is cholecystokinin produced? What is its action?
42. What part of the small intestine receives bile and pancreatic juice?
43. What are lacteals and what is their function?
44. What is the brush border and what is its function?
45. What are the intestinal crypts and what is their function?
46. What are Peyer's patches and what is their function?
47. What are duodenal glands and what is their function?

48. What are the two sources of blood supply to the liver?
49. What is the function of bile salts?
50. What is bilirubin?
51. What is the function of the gall bladder?
52. List the digestive enzymes produced by the pancreas and their substrates.
53. Besides enzymes, what other digestive product is produced by the pancreas?
54. What pancreatic secretion is stimulated by CCK?
55. What pancreatic secretion is stimulated by secretin?
56. List the subdivisions of the large intestine.
57. What is secreted by the walls of the large intestine?
58. List the enzymes, products and location of carbohydrate digestion.
59. List the enzymes, products and location of protein digestion.
60. List the enzymes, products and location of fat digestion.
61. List the enzymes, products and location of nucleic acid digestion.