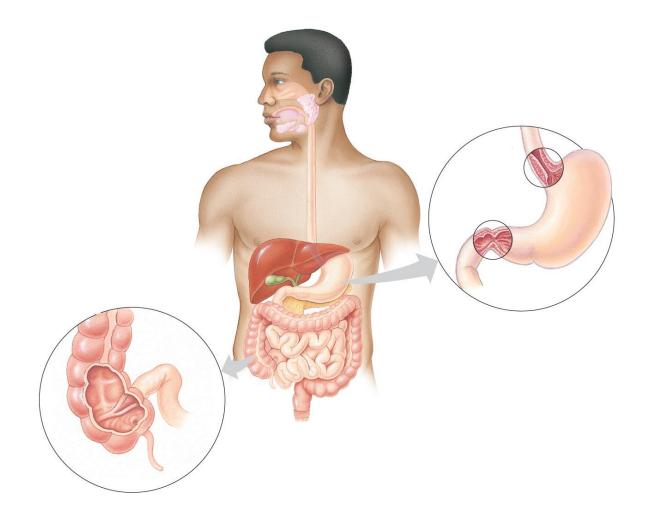
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Chapter 41: Animal Nutrition

- 1. What is the difference between herbivores, carnivores, and omnivores? Provide examples of each.
- 2. Name three things that an animal's diet must supply.
- 3. Contrast undernutrition with malnutrition.
- 4. How can vegetarians avoid protein deficiencies?
- 5. Compare and contrast vitamins with minerals. Provide 3 examples of each.
- 6. Name and explain the four stages of food processing.
- 7. Why are nutrients from a recently ingested meal not really "inside" your body prior to the absorption stage of food processing?
- 8. What is peristalsis?

9. Label the diagram of the human digestive system.



- 10. Describe the role of each of the following in human digestion:
 - a. Salivary amylase (oral cavity)
 - b. Bolus
 - c. Epiglottis
 - d. Esophagus
 - e. Stomach
 - 1. Acidity of gastric juice

- 2. Pepsin (gastric juice)
 - What protects the stomach against self-digestion?

3. Chyme

4. Pyloric sphincter

f. Small intestine

- 1. Duodenum
- 2. Pancreas
- 3. Pancreatic bicarbonate
- 4. Pancreatic amylases
- 5. Pancreatic proteases (trypsin, chymotrypsin, and carboxypeptidases)
- 6. Pancreatic nucleases
- 7. Liver
- 8. Gallbladder
- 9. Bile salts
- 10. Pancreatic lipases
- 11. Brush border
- 12. jejunum and ileum

- 13. Villi and microvilli
- g. Large intestine (colon)
- h. Feces
- i. Rectum
- 11. Where is each of the following chemically digested?a. Carbohydrate:
 - b. Protein
 - c. Nucleic acid
 - d. Fat
- 12. What is the role of bacteria in the digestive tract?

13. Describe the role of the following hormones:

- a. Gastrin:
- b. Secretin:
- c. Cholecystokinin:_____
- 14. What is the importance of fiber in our diets?
- 15. Why do herbivores and omnivores have longer alimentary canals than carnivores?
- 16. What unique nutritional challenge faces herbivores? How do these organisms overcome this challenge?