

# Workbook



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# Animal Nutrition, and the Digestive System

## Animal Nutrition and The Digestive System

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### Questions

- 1) Which of the following is a pseudo-ruminant?
  - a. cow
  - b. pig
  - c. crow
  - d. horse
  
- 2) Which of the following statements is untrue?
  - a. Roughage takes a long time to digest.
  - b. Birds eat large quantities at one time so that they can fly long distances.
  - c. Cows do not have upper teeth.
  - d. In pseudo-ruminants, roughage is digested in the cecum.
  
- 3) The acidic nature of chyme is neutralized by\_\_\_\_\_.
  - a. potassium hydroxide
  - b. sodium hydroxide
  - c. bicarbonates
  - d. vinegar
  
- 4) What is the primary fuel for the body?
  - a. carbohydrates
  - b. lipids
  - c. protein
  - d. glycogen
  
- 5) Excess glucose is stored as\_\_\_\_\_.
  - a. fat
  - b. glucagon
  - c. glycogen
  - d. it is not stored in the body

## Introduction to Biology

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- 6) The digestive juices from the liver are delivered to the \_\_\_\_\_.
- stomach
  - liver
  - duodenum
  - colon
- 7) A scientist dissects a new species of animal.  
If the animal's digestive system has a single stomach with an extended small intestine, to which animal could the dissected specimen be closely related?
- lion
  - snowshoe hare
  - earthworm
  - eagle
- 8) Which of the following statements is not true?
- Essential nutrients can be synthesized by the body.
  - Vitamins are required in small quantities for bodily function.
  - Some amino acids can be synthesized by the body, while others need to be obtained from diet.
  - Vitamins come in two categories: fat-soluble and water-soluble.
- 9) Which of the following is a water-soluble vitamin?
- vitamin A
  - vitamin E
  - vitamin K
  - vitamin C
- 10) Where does the majority of protein digestion take place?
- stomach
  - duodenum
  - mouth
  - jejunum
- 11) Lipases are enzymes that breakdown \_\_\_\_\_.
- disaccharides
  - lipids
  - proteins
  - cellulose

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**12)** Which hormone controls the release of bile from the gallbladder?

- a. pepsin
- b. amylase
- c. CCK
- d. Gastrin

**13)** Which hormone stops acid secretion in the stomach?

- a. gastrin
- b. somatostatin
- c. gastric inhibitory peptide
- d. CCK

**14)** In the famous conditioning experiment, Pavlov demonstrated that his dogs started drooling, in response to a bell sounding. What part of the digestive process did he stimulate?

- a. cephalic phase
- b. gastric phase
- c. intestinal phase
- d. elimination phase

### Answer Key

- 1) d
- 2) b
- 3) c
- 4) a
- 5) c
- 6) c
- 7) b
- 8) a
- 9) d
- 10) a
- 11) b
- 12) c
- 13) b
- 14) a