

## Digestive System Anatomy Quiz Answer Key PDF

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**What is the primary function of the esophagus in the digestive system?**

- A. Absorption of nutrients
- C. Transport of food to the stomach ✓**
- D. Production of digestive enzymes
- C. Storage of bile

**Which of the following organs are directly involved in the digestion and absorption of nutrients?**

- A. Mouth ✓**
- C. Small Intestine ✓**
- D. Gallbladder
- C. Stomach ✓**

**Where does the majority of nutrient absorption occur in the digestive system?**

- A. Stomach
- C. Small Intestine ✓**
- D. Esophagus
- C. Large Intestine

**Which of the following enzymes are involved in the digestion of carbohydrates?**

- A. Salivary amylase ✓**
- C. Lipase
- D. Pancreatic amylase ✓**
- C. Pepsin

**What is the primary role of the stomach in digestion?**

- A. Absorption of nutrients
- C. Chemical digestion of proteins ✓**
- D. Production of insulin
- C. Mechanical breakdown of food

**Which components of the digestive system are involved in the mechanical breakdown of food?**

- A. Teeth ✓**
- C. Pancreas
- D. Small Intestine
- C. Stomach ✓**

**Which part of the small intestine is primarily responsible for the absorption of nutrients?**

- A. Duodenum
- C. Ilium
- D. Cecum
- C. Jejunum ✓**

**Which of the following are functions of the liver in the digestive system?**

- A. Production of bile ✓**
- C. Detoxification of blood ✓**
- D. Storage of vitamins and minerals ✓**
- C. Absorption of water

**What is the main function of the large intestine in the digestive system?**

- A. Digestion of proteins
- C. Production of bile
- D. Breakdown of carbohydrates
- C. Absorption of water and electrolytes ✓**

**Which organs produce enzymes that aid in digestion?**

- A. Pancreas ✓**
- C. Gallbladder

**D. Salivary glands ✓**

C. Liver

**What is the role of hydrochloric acid in the stomach?**

A. Neutralizes stomach acid

**C. Activates digestive enzymes ✓**

D. Absorbs nutrients

C. Breaks down carbohydrates

**Which of the following processes occur in the mouth during digestion?**

**A. Mechanical breakdown of food ✓**

C. Absorption of nutrients

D. Production of bile

**C. Chemical digestion of carbohydrates ✓**

**Which organ stores bile before it is released into the small intestine?**

A. Liver

**C. Gallbladder ✓**

D. Stomach

C. Pancreas

**Which of the following are involved in the chemical digestion of proteins?**

**A. Pepsin ✓**

C. Amylase

D. Lipase

**C. Trypsin ✓**

**What is the primary function of the gallbladder in the digestive system?**

A. Production of digestive enzymes

C. Absorption of nutrients

D. Detoxification of blood

**C. Storage and concentration of bile ✓**

**Which of the following nutrients are primarily absorbed in the small intestine?**

**A. Carbohydrates ✓**

**C. Proteins ✓**

D. Water

**C. Fats ✓**

**What is the main function of the duodenum in the digestive system?**

A. Storage of bile

C. Absorption of water

D. Production of digestive enzymes

**C. Initial digestion and absorption ✓**

**Explain the role of bile in the digestion of fats and describe how it is produced and stored in the body.**

**The role of bile in the digestion of fats is to emulsify them, which increases the surface area for lipase enzymes to act upon, facilitating the breakdown of fats into fatty acids and glycerol. Bile is produced by the liver from cholesterol and is stored in the gallbladder, where it is concentrated and released into the small intestine during digestion.**