Digestive System Quiz Answer Key PDF

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Which of the following nutrients are absorbed in the small intestine? (Select all that apply)

A. Proteins ✓
B. Carbohydrates ✓
C. Fats ✓
D. Vitamins ✓

Which enzymes are involved in protein digestion? (Select all that apply)

A. Pepsin ✓
B. Amylase
C. Trypsin ✓
D. Lipase

Which hormone stimulates the release of gastric acid in the stomach?

A. Insulin
B. Gastrin ✓
C. Secretin
D. Cholecystokinin

Which part of the digestive system is responsible for the initial mechanical digestion of food?

A. Stomach
B. Mouth ✓
C. Small Intestine
D. Esophagus

Which of the following are functions of the liver in digestion? (Select all that apply)

A. Producing bile ✓
B. Storing glycogen ✓
C. Producing insulin
D. Detoxifying blood ✓

What enzyme in saliva begins the digestion of carbohydrates?

A. Pepsin
B. Lipase
C. Amylase ✓
D. Trypsin

Which organ is primarily responsible for nutrient absorption?

A. Stomach
B. Small Intestine ✓
C. Large Intestine
D. Esophagus

What is the main role of bile in digestion?

A. Break down proteins
B. Neutralize stomach acid
C. Emulsify fats ✓
D. Absorb carbohydrates

Explain the role of the pancreas in digestion.

A.
B.
C.
D.

Describe how the enteric nervous system regulates digestive processes.

A.
B.

C.
D.

How does the body regulate the pH levels in the stomach and small intestine?

A.
B.
C.
D.

Which processes are involved in mechanical digestion? (Select all that apply)

A. Chewing ✓
B. Peristalsis
C. Enzyme secretion
D. Churning in the stomach ✓

Discuss the importance of fiber in the digestive system.

A.
B.
C.
D.

What are the differences between chemical and mechanical digestion? Provide examples of each.

A.
B.
C.
D.

What condition is characterized by the backward flow of stomach acid into the esophagus?

A. Ulcer
B. GERD ✓
C. IBS

D. Crohn's Disease

Explain the evolutionary adaptations of the digestive system in herbivores compared to carnivores.

A.
B.
C.
D.

Which of the following is not an accessory organ of the digestive system?

A. Liver
B. Pancreas
C. Kidneys ✓
D. Gallbladder

What is the primary function of the large intestine?

A. Protein digestion
B. Absorption of water ✓
C. Fat emulsification
D. Carbohydrate breakdown

What are the components of gastric juice? (Select all that apply)

A. Hydrochloric acid ✓
B. Bile
C. Pepsin ✓
D. Mucin ✓

Which of the following are symptoms of irritable bowel syndrome (IBS)? (Select all that apply)

A. Abdominal pain ✓
B. Constipation ✓
C. Diarrhea ✓
D. High fever