

Test – Lesson 9 – Gastrointestinal – Answer Key

Page 1

1. Which statements about the tooth are true? (Select all that apply.)

- (A) The dentin of a tooth is supplied by nerves and blood vessels that reach the dentin from the interior of the dentin.
- (B) A tooth's roots are anchored in the jaw bone by a layer of cementin.
- (C) The enamel of a tooth has a separate blood and nerve supply from the dentin.
- (D) Because ligaments connect bones, the roots of a tooth are anchored to the jaw bone by ligaments.

2. Which statements about the mouth are true? (Select all that apply.)

- (A) Saliva digests primarily carbohydrates.
- (B) Saliva contains the enzyme amylase.
- (C) Salivary glands are controlled by parasympathetic nerves, which is why saliva increases during moments of stress.
- (D) Salivary glands are found in front of the ear and under the jaw bone.

3. Which statements about the esophagus and stomach are true? (Select all that apply.)

- (A) The esophageal sphincter helps prevent heartburn.
- (B) The epiglottis closes off the opening to the esophagus to prevent food from entering the trachea during swallowing.
- (C) The stomach wall releases the enzyme amylase and mild nitric acid to help digest food.
- (D) The stomach wall releases intrinsic factor to absorb vitamin B12 through the stomach wall.

4. The large intestine begins with the _____.

- (A) caecum
- (B) ascending colon
- (C) transverse colon
- (D) descending colon

5. The abdominal wall is lined with _____.

- (A) parietal peritoneum
- (B) visceral peritoneum
- (C) peritoneal space
- (D) paraintestinal membrane

6. Which statements about the duodenum are true? (Select all that apply.)

(A) Food entering the duodenum from the stomach is immediately met by juices passing through the ampulla of Vater containing bile made in the liver and digestive enzymes made in the pancreas.

(B) Bile acts like soap to break apart globs of fat into tiny globules of fat which are absorbed into the liver for further breakdown into glycerol and fatty acids.

(C) Pancreatic enzymes secreted into the duodenum break down proteins into amino acids, carbohydrates into monosaccharides, and nucleic acids into nucleotides for absorption throughout the small intestine.

(D) After absorption by the small intestine, the breakdown products of food are brought to the liver.

7. Which statements about the liver are true? (Select all that apply.)

(A) Breakdown products from the small intestines are brought to the liver through the hepatic vein.

(B) Not only does the liver receive the breakdown products of food, it also receives the breakdown products of red blood cells from the spleen.

(C) The heme of hemoglobin delivered from the spleen to the liver are recycled into bile.

(D) Stores of glycogen in the liver are released when muscles or other organs signal the liver to release additional glucose.