

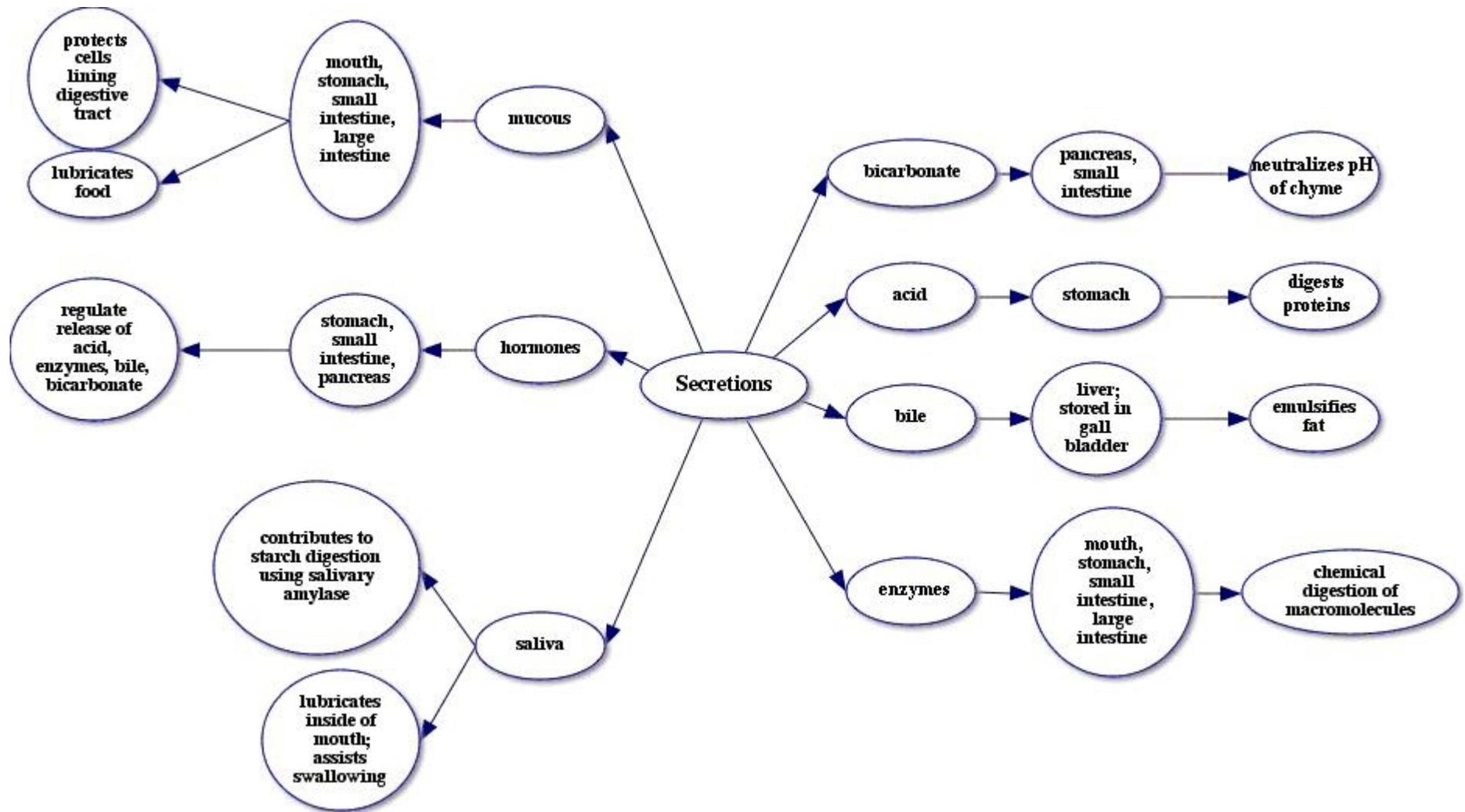
CHAPTER 6	Important Secretions of the Digestive System	BLM 6.2.2A
ANSWER KEY	Answer Key	

Secretion	Site of production	Function
saliva	mouth	contributes to starch digestion via salivary amylase; lubricates the inside of the mouth to assist in swallowing
mucous	mouth, stomach, small intestine, and large intestine	protects the cells lining the innermost portion of the digestive tract; lubricates food as it travels through the digestive tract
enzymes	mouth, stomach, small intestine, and pancreas	promote digestion of food masses into particles small enough for absorption into the bloodstream
acid	stomach	promotes digestion of protein
bile	liver (stored in gall bladder)	suspends fat in water, using bile salts, cholesterol, and lecithin to aid digestion of fats in small intestine
bicarbonate	pancreas and small intestine	neutralizes stomach acid when it reaches the small intestine
hormones	stomach, small intestine, and pancreas	stimulate production and/or release of acid, enzymes, bile, and bicarbonate; help to regulate peristalsis

Important Secretions of the Digestive System

Answer Key

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Enzyme	Where enzyme acts / pH	Substrate	Products of digestion	Origin of enzymes
salivary amylase	mouth/ 7	starch, glycogen	maltose (disaccharide)	salivary glands
pancreatic amylase	small intestine/ 8	starch, glycogen	maltose	pancreas
carbohydrases • sucrase • maltase • lactase	small intestine/ 8	sucrose maltose lactose	glucose + fructose glucose glucose + galactose	small intestine
pancreatic lipase	small intestine/ 8	lipids	fatty acids and glycerol	pancreas
proteases • pepsin • trypsin • chymotrypsin	stomach/ 1-2 small intestine/ 8 small intestine/ 8	protein peptides peptides	peptides smaller peptides smaller peptides	stomach pancreas pancreas
peptidases	small intestine/ 8	peptides	smaller peptides and amino acids	pancreas and small intestine
nucleases	small intestine/ 8	nucleic acids	nucleotides and components	pancreas
nucleosidases	small intestine/ 8	nucleotides	bases, sugars, and phosphates	small intestine

Important Secretions of the Digestive System Answer Key

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