Nutrition for Health and Healthcare 6th Edition DeBruyne Test Bank

Chapter 02 - Digestion and Absorption

True / False

1. Segmentation begins when a bolus enters the esophagus.

a. True	
b. False	
ANSWER:	False
REFERENCES:	2.1 Anatomy of the Digestive System
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.1 - Describe the path that food takes during digestion and the muscular actions of digestion.
KEYWORDS:	Bloom's: Remember
2. Bacteria in the colon prot	ect people from some infections.
b. False	
ANSWER:	True
REFERENCES:	2.2 The Process of Digestion
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.2 - Describe the actions and origins of the digestive secretions.
KEYWORDS:	Bloom's: Understand

3. The idea of "food-combining diets," or avoiding certain combinations of food, is valid- the digestive system cannot handle more than one task at a time.

a. True	
b. False	
ANSWER:	False
REFERENCES:	2.3 The Absorptive System
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.3 - Describe the anatomical details of the GI tract and the features and activities of intestinal cells that facilitate nutrient absorption.
KEYWORDS:	Bloom's: Apply
4. Low-density lipoproteins	, or LDL, are often referred to as "good" cholesterol.
a. True	
b. False	
ANSWER:	False
REFERENCES:	2.4 Transport of Nutrients
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.4 - Explain the process of nutrient delivery from the GI tract to body cells by the vascular system and the three types of lipoproteins.
KEYWORDS:	Bloom's: Remember
5. Hands should be washed illness.	with soap and water often during food preparation in order to reduce the risk of foodborne
a. True	
b. False	
ANSWER:	True
REFERENCES:	2.5 Nutrition in Practice: Food Safety

LEARNING OBJECTIVES: NHHE.DEBR.17.2.5 - Explain the causes and effects of foodborne illnesses in humans and the methods of ensuring food safety.

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KEYWORDS: Bloom's: Understand

Multiple Choice

6. Another name for the digestive tract is the:

- a. urinary tract.
- b. exocrine system.
- c. gastrointestinal tract.
- d. muscular system.
- e. gastroesophageal system.

ANSWER:

REFERENCES: 2.1 Anatomy of the Digestive Tract

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LEARNING OBJECTIVES: NHHE.DEBR.17.2.1 - Describe the path that food takes during digestion and the muscular actions of digestion.

KEYWORDS: Bloom's: Remember

7. Identify the correct order of the digestive tract from beginning to end.

- a. stomach, mouth, large intestine
- b. pharynx, rectum, stomach
- c. lower esophageal sphincter, esophagus, rectum
- d. mouth, stomach, anus
- e. pharynx, large intestine, pyloric sphincter

ANSWER:dREFERENCES:2.1 Anatomy of the Digestive TractLEARNING OBJECTIVES:NHHE.DEBR.17.2.1 - Describe the path that food takes during digestion and the muscular
actions of digestion.KEYWORDS:Bloom's: Remember

8. A bolus is a(n):

- a. sphincter muscle separating the stomach from the small intestine.
- b. portion of food swallowed at one time.
- c. enzyme that hydrolyzes starch.
- d. portion of partially digested food expelled by the stomach into the duodenum.
- e. blockage that closes off the trachea to prevent choking.

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ANSWER:
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REFERENCES: 2.1 Anatomy of the Digestive Tract

b

LEARNING OBJECTIVES: NHHE.DEBR.17.2.1 - Describe the path that food takes during digestion and the muscular actions of digestion.

- *KEYWORDS:* Bloom's: Remember
- 9. Which of the following is formed in the mouth?
 - a. bile
 - b. stomach acid
 - c. chyme
 - d. villus

e. bolus	
ANSWER:	e
REFERENCES:	2.1 Anatomy of the Digestive Tract
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.1 - Describe the path that food takes during digestion and the muscular actions of digestion.
KEYWORDS:	Bloom's: Remember
10. During swallowing of fo a. lower esophageal sph	ood, which of the following prevents food from entering the lungs?
b. pharynx	
c. ileocecal valve	
d. epiglottis	
e. appendix	
ANSWER:	d
REFERENCES:	2.1 Anatomy of the Digestive Tract
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.1 - Describe the path that food takes during digestion and the muscular actions of digestion.
KEYWORDS:	Bloom's: Understand
11. The stomach empties int	to the:
a. ileum.	
b. cecum.	
c. jejunum.	
d. duodenum.	
e. colon.	
ANSWER:	d
REFERENCES:	2.1 Anatomy of the Digestive Tract
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.1 - Describe the path that food takes during digestion and the muscular actions of digestion.
KEYWORDS:	Bloom's: Understand
12. Chyme is:	
a. a semiliquid mass of	partially digested food.
b. a portion of food swa	allowed at one time.
c. an enzyme in the stor	mach needed for the digestion of protein.
d. an esophageal secreti	lon.
e. successive waves of	involuntary muscular contractions passing along the wall of the GI tract.
ANSWER:	a
REFERENCES:	2.1 Anatomy of the Digestive Tract
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.1 - Describe the path that food takes during digestion and the muscular actions of digestion.
KEYWORDS:	Bloom's: Remember
13. Which two organs secre	te digestive juices into the small intestine?

a. gallbladder and pancreas

b. pancreas and liver	
c. gallbladder and liver	
d. duodenum and panci	reas
e. liver and stomach	
ANSWER:	a
REFERENCES:	2.1 Anatomy of the Digestive Tract
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.1 - Describe the path that food takes during digestion and the muscular actions of digestion.
KEYWORDS:	Bloom's: Remember
14. The movement of chym	e from the stomach into the small intestine is regulated by the:
a. pancreas.	
b. lower esophageal spl	nincter.
c. ileocecal valve.	
d. duodenum.	
e. pyloric sphincter.	
ANSWER:	e
REFERENCES:	2.1 Anatomy of the Digestive Tract
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.1 - Describe the path that food takes during digestion and the muscular actions of digestion.
KEYWORDS:	Bloom's: Remember
15. Immediately before pass a. pyloric sphincter.	sing into the large intestine, the food mass must pass though the:
b. lower esophageal spl	nincter.
c. ileocecal valve.	
d. bolus.	
e. colon.	
ANSWER:	c
REFERENCES:	2.1 Anatomy of the Digestive Tract
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.1 - Describe the path that food takes during digestion and the muscular actions of digestion.
KEYWORDS:	Bloom's: Remember

16. *Peristalsis* is a term that refers to the:

a. circulation of blood in the blood vessels.

- b. absorption of nutrients in the intestines.
- c. mixing and moving of food through the lymphatic system.
- d. last phase of digestion.

e. action of the involuntary muscles of the digestive tract.

ANSWER:	e
REFERENCES:	2.1 Anatomy of the Digestive Tract
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.1 - Describe the path that food takes during digestion and the muscular actions of digestion.
KEYWORDS:	Bloom's: Remember

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17. Involuntary muscle contractions move food through the intestinal tract. The movement that forces the contents back a few inches before pushing it forward again is called:

- a. segmentation.
- b. rotation.
- c. peristalsis.
- d. liquefaction.
- e. kneading

e. Kileuding.	
ANSWER:	a
REFERENCES:	2.1 Anatomy of the Digestive Tract
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.1 - Describe the path that food takes during digestion and the muscular actions of digestion.
KEYWORDS:	Bloom's: Remember

- 18. Enzymes:
 - a. facilitate chemical reactions.
 - b. draw water into the small intestine.
 - c. are present in all parts of the GI tract.
 - d. encourage bacterial growth.
 - e. are changed during digestion.
- ANSWER

REFERENCES:	2.2 The Process of Digestion
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.2 - Describe the actions and origins of the digestive secretions
KEYWORDS:	Bloom's: Remember

19. Which enzyme breaks down starch in the mouth?

а

- a. lingual protease
- b. lipase
- c. salivary amylase
- d. gastric protease
- e. secretin

ANSWER:

с **REFERENCES:** 2.2 The Process of Digestion

LEARNING OBJECTIVES: NHHE.DEBR.17.2.2 - Describe the actions and origins of the digestive secretions.

KEYWORDS: Bloom's: Remember

20. Saliva contains an enzyme that digests:

- a. proteins.
- b. minerals.
- c. starches.
- d. vitamins.
- e. fiber.

ANSWER:

с **REFERENCES:** 2.2 The Process of Digestion

LEARNING OBJECTIVES: NHHE.DEBR.17.2.2 - Describe the actions and origins of the digestive secretions.

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Bloom's: Remember **KEYWORDS**:

21. What is gastric juice composed of?

a. water, enzymes, and hydrochloric acid

- b. enzymes, water, and pancreatic acid
- c. chylomicrons, water, and bile

d. hydrochloric acid, bile, and enzymes

e. hydrochloric acid, insulin, and bile

ANSWER: а **REFERENCES:** 2.2 The Process of Digestion

LEARNING OBJECTIVES: NHHE.DEBR.17.2.2 - Describe the actions and origins of the digestive secretions.

KEYWORDS: Bloom's: Remember

22. The normal pH of the stomach is:

- a. very acidic.
- b. slightly acidic.
- c. neutral.
- d. slightly alkaline.
- e. strongly alkaline.

ANSWER:	a
REFERENCES:	2.2 The Process of Digestion
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.2 - Describe the actions and origins of the digestive secretions.
KEYWORDS:	Bloom's: Remember

- 23. Which organ does not contribute juices during digestion?
 - a. salivary glands
 - b. small intestine
 - c. pancreas
 - d. esophagus
 - e. stomach

ANSWER:

d **REFERENCES:** 2.2 The Process of Digestion LEARNING OBJECTIVES: NHHE.DEBR.17.2.2 - Describe the actions and origins of the digestive secretions. **KEYWORDS**: Bloom's: Remember

24. Mucus in the stomach serves to:

- a. neutralize stomach acid.
- b. activate pepsinogen to pepsin.
- c. coat and protect stomach cells from gastric juices.
- d. emulsify fats.
- e. collect bacteria.

ANSWER:

REFERENCES: 2.2 The Process of Digestion

с

LEARNING OBJECTIVES: NHHE.DEBR.17.2.2 - Describe the actions and origins of the digestive secretions.

KEYWORDS: Bloom's: Remember 25. The major digestive work in the stomach is the initial breakdown of: a. starch. b. proteins. c. fat. d. vitamins. e. mucus. ANSWER: b **REFERENCES:** 2.2 The Process of Digestion LEARNING OBJECTIVES: NHHE.DEBR.17.2.2 - Describe the actions and origins of the digestive secretions. **KEYWORDS:** Bloom's: Remember 26. In addition to hydrochloric acid, the stomach cells also secrete: a. mucus. b. bile. c. amylase. d. lipoproteins. e. cholesterol. ANSWER: а **REFERENCES:** 2.2 The Process of Digestion LEARNING OBJECTIVES: NHHE.DEBR.17.2.2 - Describe the actions and origins of the digestive secretions. **KEYWORDS:** Bloom's: Remember 27. Which nutrients are digested in the small intestine? a. carbohydrate, fat, and protein b. fat, water, and fiber c. protein, vitamins, and fiber d. water, fiber, and minerals e. carbohydrate, fat, and water ANSWER: а **REFERENCES:** 2.2 The Process of Digestion LEARNING OBJECTIVES: NHHE.DEBR.17.2.2 - Describe the actions and origins of the digestive secretions. **KEYWORDS:** Bloom's: Understand 28. Where does the digestion of proteins begin and end? a. begins in stomach; ends in pancreas b. begins in pancreas; ends in small intestine c. begins in stomach; ends in small intestine d. begins in small intestine; ends in liver e. begins in small intestine; ends in stomach ANSWER: с **REFERENCES:** 2.2 The Process of Digestion LEARNING OBJECTIVES: NHHE.DEBR.17.2.2 - Describe the actions and origins of the digestive secretions.

KEYWORDS: Bloom's: Remember

29. The major digestive enzyme secreted by the stomach is:

a. amylase.	
b. lipase.	
c. bile.	
d. disaccharidase.	
e. pepsin	
ANSWER:	e
REFERENCES:	2.2 The Process of Digestion
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.2 - Describe the actions and origins of the digestive secretions.
KEYWORDS:	Bloom's: Remember

30. A patient has lost the ability to digest the majority of carbohydrates, proteins, and fats due to a loss of enzymes. Which organ is most likely failing her?

a. pancreas	
b. gallbladder	
c. stomach	
d. liver	
e. intestine	
ANSWER:	a
REFERENCES:	2.2 The Process of Digestion
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.2 - Describe the actions and origins of the digestive secretions.
KEYWORDS:	Bloom's: Analyze
31. After the pancreatic juic	es have mixed with chyme in the intestine, the resulting mixture is:
a. very acidic.	
b. slightly acidic.	
c. strongly alkaline.	
d. slightly alkaline.	
e. none of the above.	
ANSWER:	d
REFERENCES:	2.2 The Process of Digestion
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.2 - Describe the actions and origins of the digestive secretions.
KEYWORDS:	Bloom's: Remember
32. The liver:	
a. reabsorbs water and s	salts.
b. secretes bile.	
c. churns food to chyme	2.
d. performs enzymatic of	digestion.
e. stores bile.	
ANSWER:	b
REFERENCES:	2.2 The Process of Digestion
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.2 - Describe the actions and origins of the digestive secretions.
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KEYWORDS: Bloom's: Remember

33. The main function of bile is to:

- a. stimulate vitamin-producing bacteria.
- b. stimulate the activity of protein digestive enzymes.
- c. neutralize the intestinal contents.
- d. decrease the acidity of the contents of the stomach.
- e. emulsify fats.

ANSWER:eREFERENCES:2.2 The Process of DigestionLEARNING OBJECTIVES:NHHE.DEBR.17.2.2 - Describe the actions and origins of the digestive secretions.KEYWORDS:Bloom's: Remember

34. Gallbladder disease, such as cancer, can compromise the digestion of:

e n ounoidader arbease, sae	in us cancer, can compromise the argestion of.
a. fat	
b. protein	
c. carbohydrate	
d. fiber	
e. minerals	
ANSWER:	a
REFERENCES:	2.2 The Process of Digestion
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.2 - Describe the actions and origins of the digestive secretions.
KEYWORDS:	Bloom's: Apply
35. The gallbladder:	aalta
a. readsords water and s	sans.
b. churns food to chyme	direction
c. performs enzymatic (urgestion.
u. stores one.	t meduce Vitemin V
e. contains bacteria that	t produce vitamin K.
ANSWER:	a
REFERENCES:	2.2 The Process of Digestion
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.2 - Describe the actions and origins of the digestive secretions.
KEYWORDS:	Bloom's: Remember
36. The emulsification of fa	t requires:
a. biotin.	
b. enzymes.	
c. prostaglandins.	
d. intestinal flora.	
e. bile.	
ANSWER:	e
REFERENCES:	2.2 The Process of Digestion
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.2 - Describe the actions and origins of the digestive secretions.

KEYWORDS:	Bloom's: Remember	
37. Which of the following a. salivab. gastric juicec. intestinal juiced. bilee. pancreatic juice	contains no digestive enzymes?	
ANSWER:	d	
REFERENCES:	2.2 The Process of Digestion	
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.2 - Describe the actions and origins of the digestive secretions.	
KEYWORDS:	Bloom's: Remember	
 38. Which of the following a. stomach b. pancreas c. salivary glands d. liver (via the gall bla e. large intestine 	does not secrete digestive juices? dder)	
ANSWER	e	
REFERENCES	2.2. The Process of Digestion	
LEARNING OBJECTIVES	NHHE DEBR 17.2.2 - Describe the actions and origins of the digestive secretions	
KEYWORDS:	Bloom's: Remember	
 39. Which of the following a. fat b. sugar c. vitamin C d. fruit sugar e. glucose 	nutrients takes longest to digest?	
ANSWER:	a	
REFERENCES:	2.2 The Process of Digestion	
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.2 - Describe the actions and origins of the digestive secretions.	
KEYWORDS:	Bloom's: Remember	
 40. Fats present in the GI tract: a. slow down the process of digestion and absorption. b. cause difficulty in digestion. c. stimulate and hasten digestion and absorption. d. are carriers of thiamin, riboflavin, and niacin. a. cause GI inflammation 		
ANSWER:	a	
REFERENCES:	2.2 The Process of Digestion	
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.2 - Describe the actions and origins of the digestive secretions.	

KEYWORDS:	Bloom's: Understand	
41. Which of the following a. a piece of toast with b. a grilled steak	foods would take the most time to digest? strawberry jam	
c. a green salad with low-fat salad dressing		
d. a cup of green beans	3	
e. a piece of cake with	frosting	
ANSWER:	b	
REFERENCES:	2.2 The Process of Digestion	
LEARNING OBJECTIVES:	• NHHE.DEBR.17.2.2 - Describe the actions and origins of the digestive secretions.	
KEYWORDS:	Bloom's: Apply	
42. Which of these foods w a. sugar cookies	rould be digested most quickly?	
b. peanut butter sandw	ich and milk	
c. stew and cornbread		
d. hamburger, French f	ries, and milkshake	
e. steak and baked pota	ato	
ANSWER:	a	
REFERENCES:	2.2 The Process of Digestion	
LEARNING OBJECTIVES:	• NHHE.DEBR.17.2.2 - Describe the actions and origins of the digestive secretions.	
KEYWORDS:	Bloom's: Apply	
43. Which of the following a. a scoop of lemon sh	foods would be digested most rapidly? erbet	
b. an apple		
c. a baked potato with	sour cream	
d. a piece of cheese on	a cracker	
e. a hamburger		
ANSWER:		
REFERENCES:	2.2 The Process of Digestion	
LEARNING OBJECTIVES:	• NHHE.DEBR.17.2.2 - Describe the actions and origins of the digestive secretions.	
KEYWORDS:	Bloom's: Apply	
44. Which nutrients must b a. vitamins, minerals, a	e broken down in order to be absorbed? and water	
b. carbohydrate, vitami	ins, and minerals	
c. fat, protein, and min	erals	
d. carbohydrate, protei	n, and fat	
e. carbohydrate, fat, wa	ater	
ANSWER:	d	
REFERENCES:	2.2 The Process of Digestion	
EARNING OBJECTIVES: NHHE.DEBR.17.2.2 - Describe the actions and origins of the digestive secretions		

Bloom's: Understand **KEYWORDS**:

45. Bacteria in the GI tract perform all of the following functions except:

Bloom's: Remember

a. producing biotin.

b. protecting people from infection.

c. producing vitamin K.

- d. breaking down fiber.
- e. producing bile.

ANSWER:

e **REFERENCES:** 2.2 The Process of Digestion

LEARNING OBJECTIVES: NHHE.DEBR.17.2.2 - Describe the actions and origins of the digestive secretions.

KEYWORDS:

46. Fiber functions to:

- a. aid in the absorption of vitamins.
- b. produce GI bacteria.
- c. stimulate the GI tract muscles.
- d. stimulate the absorption of nutrients.
- e. increase water absorption by the digestive tract.

ANSWER:	c
REFERENCES:	2.2 The Process of Digestion
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.2 - Describe the actions and origins of the digestive secretions.
KEYWORDS:	Bloom's: Remember

47. A benefit of fiber is that it:

- a. promotes mineral absorption.
- b. aids in keeping stools soft.
- c. prevents diarrhea.
- d. keeps individual foods from getting mixed together.
- e. promotes fat absorption.

ANSWER:	b
REFERENCES:	2.2 The Process of Digestion
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.2 - Describe the actions and origins of the digestive secretions.
KEYWORDS:	Bloom's: Remember

- 48. Once the digestive process is complete, the colon retrieves materials that the body must recycle. These materials are: a. water and dissolved salts.
 - b. iron and water.
 - c. protein and sodium.
 - d. water and fiber.
 - e. fat and fiber.

ANSWER

а **REFERENCES:** 2.2 The Process of Digestion

LEARNING OBJECTIVES: NHHE.DEBR.17.2.2 - Describe the actions and origins of the digestive secretions.

KEYWORDS:	Bloom's: Remember	
49. One of the functions of t a. salts.	he colon is to absorb:	
b. vitamins.		
c. sugars.		
d. fiber.		
e. fats.		
ANSWER:	a	
REFERENCES:	2.2 The Process of Digestion	
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.2 - Describe the actions and origins of the digestive secretions.	
KEYWORDS:	Bloom's: Remember	
50. The primary site of nutri	ent absorption is the:	
a. stomach.		
b. pancreas.		
c. small intestine.		
d. large intestine.		
e. mouth.		
ANSWER:	c	
REFERENCES:	2.3 The Absorptive System	
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.3 - Describe the anatomical details of the GI tract and the features and activities of intestinal cells that facilitate nutrient absorption.	
KEYWORDS:	Bloom's: Remember	
51. Villi are part of the stru	cture of the	
a. esophagus.		
b. stomach.		
c. colon.		
d. large intestine.		
e. small intestine.		
ANSWER:	e	
REFERENCES:	2.3 The Absorptive System	
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.3 - Describe the anatomical details of the GI tract and the features and activities of intestinal cells that facilitate nutrient absorption.	
KEYWORDS:	Bloom's: Remember	
52. The microscopic hairs that a. intestinal folds.	nat cover the surface of each cell lining the small intestine are called:	
b. villi.		
c. microvilli.		
d. lymphatics.		
e. chylomicrons.		
ANSWER:	c	
REFERENCES:	2.3 The Absorptive System	
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Chapter 02 - Digestion and Absorption		
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.3 - Describe the anatomical details of the GI tract and the features and activities of intestinal cells that facilitate nutrient absorption.	
KEYWORDS:	Bloom's: Remember	
53. Which of the following a. fat-soluble vitamins	nutrients is/are absorbed into the lymphatic system?	
b. water		
c. amino acids		
d. glucose		
e. minerals		
ANSWER:	a	
REFERENCES:	2.3 The Absorptive System	
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.3 - Describe the anatomical details of the GI tract and the features and activities of intestinal cells that facilitate nutrient absorption.	
KEYWORDS:	Bloom's: Understand	
54. After absorption, the waaa. bloodstream.b. kidneys.c. liver.d. lymph.e. villi.	ter-soluble nutrients are released directly into the:	
ANSWER:	a	
REFERENCES:	2.3 The Absorptive System	
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.3 - Describe the anatomical details of the GI tract and the features and activities of intestinal cells that facilitate nutrient absorption.	
KEYWORDS:	Bloom's: Remember	
55. After absorption, the lar	ger fats and fat-soluble vitamins are first released into which transport system?	

b. mesentery c. vascular d. lymphatic e. cardiovascular ANSWER: d **REFERENCES:** 2.3 The Absorptive System LEARNING OBJECTIVES: NHHE.DEBR.17.2.3 - Describe the anatomical details of the GI tract and the features and activities of intestinal cells that facilitate nutrient absorption. **KEYWORDS**: Bloom's: Remember 56. After digestion, lipids are packaged for transport as lipoproteins known as: a. HDL. b. VLDL. c. LDL.

d. chylomicrons.

e. triglycerides.	
ANSWER:	d
REFERENCES:	2.3 The Absorptive System
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.3 - Describe the anatomical details of the GI tract and the features and activities of intestinal cells that facilitate nutrient absorption.
KEYWORDS:	Bloom's: Remember
57. Chylomicrons are comp	osed of:
a. phospholipid, choles	terol, and lymph
b. proteins, triglyceride	, and water-soluble vitamins
c. triglyceride, phospho	blipid, and proteins
d. water-soluble vitamin	ns, phospholipid, and cholesterol
e. fat-soluble vitamins,	water-soluble vitamins, and proteins
ANSWER:	c
REFERENCES:	2.3 The Absorptive System
<i>LEARNING OBJECTIVES:</i> NHHE.DEBR.17.2.3 - Describe the anatomical details of the GI tract and the feature activities of intestinal cells that facilitate nutrient absorption.	
KEYWORDS:	Bloom's: Remember
58. The lymphatic system:	
a. contains fluid with th	ne same composition as blood.
b. eventually drains into	o the blood circulatory system.
c. carries chylomicrons	to the intestines.
d. is where metabolism	of nutrients takes place.
e. conveys the products	s of digestion toward the brain.
ANSWER:	b
REFERENCES:	2.4 Transport of Nutrients
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.4 - Explain the process of nutrient delivery from the GI tract to body cells by the vascular system and the three types of lipoproteins.
KEYWORDS:	Bloom's: Remember
59. When nutrients enter the a. kidney.	e blood vessels from the small intestine, they are first transported to the:
D. IIVER.	
c. cens inroughout the t	body.
d. thoracic duct.	
e. gallbladder.	
ANSWER:	b
REFERENCES:	2.4 Transport of Nutrients
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.4 - Explain the process of nutrient delivery from the GI tract to body cells by the vascular system and the three types of lipoproteins.
KEYWORDS:	Bloom's: Remember

60. Which of the following is the body's major metabolic organ?

a. pancreas

b. small intestine			
c. gallbladder			
d. heart			
e. liver			
ANSWER:	e		
REFERENCES:	2.4 Transport of Nutrients		
<i>LEARNING OBJECTIVES:</i> NHHE.DEBR.17.2.4 - Explain the process of nutrient delivery from the GI tract to by the vascular system and the three types of lipoproteins.			
KEYWORDS:	Bloom's: Remember		
61. Elevated LDL concentra	tions are associated with a high risk of heart disease because they:		
a. transport cholesterol	and triglycerides from the liver to the tissues.		
b. carry excessive amou	ints of fat that is deposited around the heart.		
c. encourage high level	s of iron in the blood.		
d. take excess cholester	ol back to the liver, which increases the production of cholesterol.		
e. are a different, less c	omplex, type of cholesterol.		
ANSWER:	a		
REFERENCES:	2.4 Transport of Nutrients		
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.4 - Explain the process of nutrient delivery from the GI tract to body cells by the vascular system and the three types of lipoproteins.		
KEYWORDS:	Bloom's: Remember		
62. Elevated HDL concentra	ations are associated with a low risk of heart disease because they:		
a. transport newly abso	rbed lipids from intestinal cells to the rest of the body.		
b. carry cholesterol and	triglycerides from the liver to the rest of the body.		
c. carry lipids around in	the blood more often than LDL.		
d. scavenge excess chol	d. scavenge excess cholesterol and phospholipids from the tissues and return them to the liver.		
e. are a more complex t	e. are a more complex type of cholesterol.		
ANSWER:	d		
REFERENCES:	2.4 Transport of Nutrients		
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.4 - Explain the process of nutrient delivery from the GI tract to body cells by the vascular system and the three types of lipoproteins.		
KEYWORDS:	Bloom's: Remember		
63 Chylomicrons contain the greatest proportion of			
a. protein.			
b. cholesterol.			
c. phospholipid.			
d. water.			
e. triglyceride.			
ANSWER:	e		
REFERENCES:	2.4 Transport of Nutrients		
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.4 - Explain the process of nutrient delivery from the GI tract to body cells by the vascular system and the three types of lipoproteins		
KEYWORDS:	Bloom's: Understand		

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~ •	TT 1.1 1	C C .1	1	1 1 1 66 11
64	Health and	performance of th	e digestive system cai	n be positively affected by
• ••	ricultin and	periormanee or m	e algebri e system ea	a de positively anected dy.

I			
a. adequate sleep			
b. enzyme supplements	\$		
c. colon cleansing treatments			
d. a high-fat diet			
e. foodborne illness			
ANSWER:	a		
REFERENCES:	2.4 Transport of Nutrients		
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.4 - Explain the process of nutrient delivery from the GI tract to body cells by the vascular system and the three types of lipoproteins.		
KEYWORDS:	Bloom's: Understand		
65. Which of the following	will cause a foodborne intoxication?		
a. Listeria			
b. Clostridium perfring	ens		
c. Campylobacter jejun	ni		
d. Staphylococcus aure	US		
e. Norovirus			
ANSWER:	d		
REFERENCES:	2.5 Nutrition in Practice : Food Safety		
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.5 - Explain the causes and effects of foodborne illnesses in humans and the methods of ensuring food safety.		
KEYWORDS:	Bloom's: Apply		
 66. To prevent bacterial gro a. 40 or under b. 140 or over c. 165 d. above 200 	wth when holding cooked foods, they should be kept at what temperature until served?		
ANSWER:	b		
REFERENCES:	2.5 Nutrition in Practice : Food Safety		
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.5 - Explain the causes and effects of foodborne illnesses in humans and the methods of ensuring food safety.		
KEYWORDS:	Bloom's: Apply		
67. What is a good recomm	endation to prevent foodborne illnesses?		
a. Fresh produce should	d be washed before it is eaten.		
b. Only new sponges and towels should be used in the kitchen.			
c. Leftovers can safely be covered and left at room temperature until the next meal.			
d. Meats should be mar	rinated at room temperature.		
e. All meat should be w	e. All meat should be washed before cooking.		
ANSWER:	a		
REFERENCES:	2.5 Nutrition in Practice: Food Safety		

LEARNING OBJECTIVES: NHHE.DEBR.17.2.5 - Explain the causes and effects of foodborne illnesses in humans and

the methods of ensuring food safety.

KEYWORDS: Bloom's: Apply

68. Cold food should be stored at:

- a. 40°F or colder b. 55°F or colder
- c. 80°F or colder
- d. 140°F or colder
- e. 40°F or warmer

ANSWER:	а

ANSWER.	a
REFERENCES:	2.5 Nutrition in Practice: Food Safety
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.5 - Explain the causes and effects of foodborne illnesses in humans and the methods of ensuring food safety.
KEYWORDS:	Bloom's: Remember

69. Leftovers should be used within how many days?

a. 5-7	
b. 3-4	
c. 2-3	
d. 1-2	
e. 10-12	
ANSWER:	b
REFERENCES:	2.5 Nutrition in Practice: Food Safety
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.5 - Explain the causes and effects of foodborne illnesses in humans and the methods of ensuring food safety.
KEYWORDS:	Bloom's: Apply

Matching

Matching

- a. the oral cavity containing the tongue and teeth.
- b. the passageway leading from the nose and mouth to the larynx and esophagus, respectively.
- c. a cartilage structure in the throat that prevents fluid or food from entering the trachea when a person swallows.
- d. the passageway from the mouth and nose to the lungs.
- e. the conduit from the mouth to the stomach.
- f. the sphincter muscle at the junction between the esophagus and the stomach.
- g. the sphincter muscle separating the stomach from the small intestine.
- h. the organ that stores and concentrates bile.
- i. a gland that secretes enzymes and digestive juices into the duodenum.
- j. a 10-foot length of small-diameter (1-inch) intestine that is the major site of digestion of food and absorption of nutrients.
- k. the top portion of the small intestine.
- 1. the first two-fifths of the small intestine beyond the duodenum.
- m. the last segment of the small intestine.
- n. the sphincter muscle separating the small and large intestines.

o. the last portion of the intestine, which absorbs water.

p. a narrow blind sac extending from the beginning of the large intestine; stores lymphocytes.

q. the muscular terminal part of the GI tract extending from the sigmoid colon to the anus.

r. the terminal sphincter muscle of the GI tract.

REFERENCES: 2.1 Anatomy of the Digestive Tract

LEARNING OBJECTIVES: NHHE.DEBR.17.2.1 - Describe the path that food takes during digestion and the muscular actions of digestion.

KEYWORDS: Bloom's: Remember

70. anal sphincter ANSWER: r

71. appendix ANSWER: p

72. duodenum ANSWER: k

73. epiglottis *ANSWER:* c

74. esophagus *ANSWER*: e

75. gallbladder ANSWER: h

76. ileocecal valve ANSWER: n

77. ileum ANSWER: m

78. jejunum ANSWER: 1

79. large intestine *ANSWER:* o

80. lower esophageal sphincter *ANSWER*: f

81. mouth *ANSWER:* a

82. pancreas *ANSWER:* i

83. pharynx ANSWER: b

84. pyloric sphincter *ANSWER:* g

85. rectum ANSWER: q

86. small intestine *ANSWER:* j

87. trachea ANSWER: d

Essay

88. Outline and trace the part	th food follows through the digestive tract from one end to the other.	
ANSWER:	Mouth (chewing and moving food around with the tongue) apharynx (shared by digestive respiratory system) aesophagus astomach (food becomes chyme) asmall intestine (gallbladder and pancreas secrete fluids into small intestine) alarge intestine (colon) arect	e and
REFERENCES:	2.1 Anatomy of the Digestive Tract	
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.1 - Describe the path that food takes during digestion and the muscula actions of digestion.	ar
KEYWORDS:	Bloom's: Remember	
89. Describe the role of the	stomach in the process of digestion.	
ANSWER:	The stomach is a muscular, elastic, saclike portion of the digestive tract that grinds and churns swallowed food, mixing it with acid and enzymes to form chyme. The major dige event that occurs in the stomach is the initial breakdown of proteins. The highly acidic environment (hydrochloric acid) in the stomach serves to denature proteins so that enzym such as pepsin, can further break them down. While the majority of digestion in the stom is protein, there is some fat digestion by gastric lipase, a small amount of sucrose digestic	stive nes, ach on
DEFEDENCEC	by stomach acid, and the attachment of a protein carrier to vitamin B_{12} .	
REFERENCES:	2.3 The Process of Digestion	
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.3 - Describe the anatomical details of the GI tract and the features and activities of intestinal cells that facilitate nutrient absorption.	d
KEYWORDS:	Bloom's: Remember	
90. Should antacids be taken	n to decrease the strong acidity of the stomach? Explain your answer.	
ANSWER:	The highly acidic environment of the stomach is required for proper protein breakdown. When protein enters the stomach, it has had no breakdown other than being crushed and mixed with saliva in the mouth. In the stomach, the acid helps to uncoil the proteins so th stomach enzymes can attack and break the bonds. Antacids reduce the acidity of the store thereby preventing protein breakdown. Antacid use should be carefully considered, espect for those on a high-protein diet.	at nach, vially
REFERENCES:	2.2 The Process of Digestion	
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.2 - Describe the actions and origins of the digestive secretions.	
KEYWORDS:	Bloom's: Apply	
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91. Explain what determine	s the rate of digestion of the energy nutrients.	
ANSWER:	The rate of digestion of carbohydrate, fat, and protein depends on the contents of the meal. If the meal is high in simple sugars (bread, cookies, crackers), digestion proceeds fairly rapidly. A meal that is high in fat will slow digestion.	
REFERENCES:	2.2 The Process of Digestion	
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.2 - Describe the actions and origins of the digestive secretions.	
KEYWORDS:	Bloom's: Apply	
92. Explain the benefits of intestinal microflora to health.		
ANSWER:	The intestines contain beneficial bacteria that produce vitamins, such as biotin and vitamin K, as well as protect the body from infectious organisms. As long as the normal intestinal flora are present, infectious bacteria have a difficult time establishing and attacking the digestive system.	
REFERENCES:	2.2 The Process of Digestion	
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.2 - Describe the actions and origins of the digestive secretions.	
KEYWORDS:	Bloom's: Understand	
93. Describe the difference relationship between blood	between low-density lipoproteins (LDL) and high-density lipoproteins (HDL). What is the levels of these lipoproteins and risk of heart disease?	
ANSWER:	LDL are cholesterol-rich lipoproteins (the more lipids in the molecule, the lower the density) and HDL contain cholesterol that is returning to the liver for metabolism or excretion from other parts of the body. Both LDL and HDL carry lipids in the blood, but LDL are larger, lighter, and filled with more lipid; HDL are smaller, denser, and packaged with more protein.	

	LDL deliver cholesterol and triglycerides from the liver to the tissues and contribute
	negatively to heart disease. HDL scavenge excess cholesterol from the tissues and dispose of
	it and can have a positive impact on heart health.
REFERENCES:	2.4 Transport of Nutrients
LEARNING OBJECTIVES:	NHHE.DEBR.17.2.4 - Explain the process of nutrient delivery from the GI tract to body cells
	by the vascular system and the three types of lipoproteins.
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KEYWORDS: Bloom's: Analyze