Nutrition for Health and Healthcare 5th Edition DeBruyne Test Bank

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Chapter 2 – Digestion and Absorption

Multiple Choice

1.	Another name for the digestive tract is the:	7.	Chyme is:
	a. urinary tract.		a. a semiliquid mass of partially digested
	b. exocrine system.		food.
	c. gastrointestinal system.		b. a portion of food swallowed at one time
	d. muscular system.		c. an enzyme in the stomach needed for
	•		the digestion of protein.
2.	The digestive tract begins at the and		d. an esophageal secretion.
	ends at the		
	a. stomach; large intestine	8.	Two organs that secrete digestive juices into
	b. pharynx; rectum		the small intestine are the and
	c. lower esophageal sphincter; rectum		a. gallbladder; pancreas
	d. mouth; anus		b. pancreas; liver
			c. gallbladder; liver
3.	A bolus is a(n):		d. duodenum; pancreas
	a. sphincter muscle separating the stomach		•
	from the small intestine.	9.	The movement of chyme from the stomach
	b. portion of food swallowed at one time.		into the small intestine is regulated by the:
	c. enzyme that hydrolyzes starch.		a. pancreas.
	d. portion of partially digested food		b. pyloric sphincter.
	expelled by the stomach into the		c. ileocecal valve.
	duodenum.		d. duodenum.
4.	The is formed in the mouth.	10.	Immediately before passing into the large
	a. bile		intestine, the food mass must pass though
	b. bolus		the:
	c. chyme		a. pyloric sphincter.
	d. villus		b. lower esophageal sphincter.
			c. ileocecal valve.
5.	The prevents food from entering the		d. bolus.
	lungs.		
	a. lower esophageal sphincter	11.	Peristalsis is a term that refers to the:
	b. pharynx		a. circulation of blood in the blood vessels.
	c. ileocecal valve		b. absorption of nutrients in the intestines.
	d. epiglottis		c. mixing and moving of food through the
			lymphatic system.
6.	The stomach empties into the:		d. last phase of digestion.
	a. ileum.		e. action of the involuntary muscles of the
	b. cecum.		digestive tract.
	c. jejunum.		
	d. duodenum.		

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- 12. 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.
- 13. 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.
- 14. Which enzyme breaks down starch in the mouth?
 - a. lingual protease
 - b. lipase
 - c. salivary amylase
 - d. gastric protease
 - e. secretin
- 15. Saliva contains an enzyme that digests:
 - a. proteins.
 - b. minerals.
 - c. starches.
 - d. vitamins.
 - e. fiber.
- 16. Which of the following is not a component of gastric juice?
 - a. water
 - b. enzymes
 - c. chylomicrons
 - d. hydrochloric acid
- 17. The normal pH of the stomach is:
 - a. very acidic.
 - b. slightly acidic.
 - c. neutral.
 - d. slightly alkaline.
 - e. strongly alkaline.

- 18. Which of the following organs does not contribute juices during digestion?
 - a. salivary glands
 - b. small intestine
 - c. pancreas
 - d. esophagus
- 19. The function of mucus in the stomach is to:
 - a. neutralize stomach acid.
 - b. activate pepsinogen to pepsin.
 - c. protect stomach cells from gastric juices.
 - d. emulsify fats.
 - e. collect bacteria.
- 20. The major digestive work in the stomach is the initial breakdown of:
 - a. starch.
 - b. proteins.
 - c. fat.
 - d. vitamins.
- 21. In addition to hydrochloric acid, the stomach cells also secrete:
 - a. mucus.
 - b. bile.
 - c. amylase.
 - d. lipoproteins.
 - e. cholesterol.
- 22. The major digestive enzyme secreted by the stomach is:
 - a. amylase.
 - b. lipase.
 - c. pepsin.
 - d. disaccharidase.
- 23. 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

b. protein

d. fiber

c. carbohydrate

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24.	The digestion of proteins begins in the and ends in the a. stomach; pancreas b. pancreas; small intestine c. stomach; small intestine d. small intestine; liver	30. The gallbladder:a. reabsorbs water and salts.b. churns food to chyme.c. performs enzymatic digestion.d. stores bile.
_	TATILLE ACTION CALL CALL AND ADDRESS OF A STATE OF A ST	31. The emulsification of fat requires:
25.	Which of the following organs is the	a. bile.
	primary source of digestive enzymes? a. pancreas	b. enzymes.
	a. pancreasb. gallbladder	c. prostaglandins.d. intestinal flora.
	c. stomach	d. Intestitiai nora.
	d. liver	32. Which of the following contains no digestive enzymes?
26	After the pancreatic juices have mixed with	a. saliva
_0.	chyme in the intestine, the resulting mixture	b. gastric juice
	is:	c. intestinal juice
	a. very acidic.	d. bile
	b. slightly acidic.	
	c. strongly alkaline.	33. Which of the following does not secrete
	d. slightly alkaline.	digestive juices?
		a. stomach
27.	The liver:	b. pancreas
	a. reabsorbs water and salts.	c. salivary glands
	b. secretes bile.	d. large intestine
	c. churns food to chyme.	
	d. performs enzymatic digestion.	34. Which of the following nutrients takes
	e. stores bile.	longest to digest?
10	The main function of hile is to.	a. fat
۷٥.	The main function of bile is to: a. emulsify fats.	b. sugar c. vitamin C
	a. emulsity fats.b. stimulate the activity of protein	c. vitamin C d. iron
	digestive enzymes.	e. glucose
	c. neutralize the intestinal contents.	c. giucosc
	d. decrease the acidity of the contents of	35. Fats present in the GI tract:
	the stomach.	a. slow down the process of digestion and
		absorption.
<u> 2</u> 9.	If the gallbladder becomes diseased, the	b. cause difficulty in digestion.
	digestion of can become	c. stimulate and hasten digestion and
	compromised.	absorption.
	a. fat	d. are carriers of thiamin, riboflavin, and

niacin.

- 36. Which of the following foods would take the most time to digest?
 - a. a piece of toast with strawberry jam
 - b. a grilled steak
 - c. a green salad with low-fat salad dressing
 - d. a cup of green beans
- 37. Which of these foods would be digested most quickly?
 - a. sugar cookies
 - b. peanut butter sandwich and milk
 - c. stew and cornbread
 - d. hamburger, french fries, and milkshake
- 38. Which of the following foods would be digested most rapidly?
 - a. a scoop of lemon sherbet
 - b. an apple
 - c. a baked potato with sour cream
 - d. a piece of cheese on a cracker
- 39. Which nutrients must be broken down in order to be absorbed?
 - a. vitamins, minerals, water
 - b. carbohydrate, vitamins, minerals
 - c. fat, protein, minerals
 - d. carbohydrate, protein, fat
- 40. Bacteria in the GI tract perform all of the following functions except:
 - a. producing biotin.
 - b. protecting people from infection.
 - c. producing vitamin K.
 - d. producing bile.
- 41. 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.
- 42. 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.

- 43. 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.
- 44. One of the functions of the colon is to absorb:
 - a. salts.
 - b. vitamins.
 - c. sugars.
 - d. fiber.
- 45. The primary site of nutrient absorption is the:
 - a. stomach.
 - b. pancreas.
 - c. small intestine.
 - d. large intestine.
- 46. Villi are part of the structure of the:
 - a. esophagus.
 - b. stomach.
 - c. small intestine.
 - d. large intestine.
- 47. The microscopic hairs that cover the surface of each cell lining the small intestine are called:
 - a. intestinal folds.
 - b. villi.
 - c. microvilli.
 - d. lymphatics.
- 48. Which of the following nutrients is/are absorbed into the lymphatic system?
 - a. fat-soluble vitamins
 - b. water
 - c. amino acids
 - d. glucose

- 49. After absorption, the water-soluble nutrients are released directly into the:
 - a. bloodstream.
 - b. kidneys.
 - c. liver.
 - d. lymph.
- 50. After absorption, the larger fats and fatsoluble vitamins are first released into the transport system.
 - a. excretory
 - b. mesentery
 - c. vascular
 - d. lymphatic
- 51. After digestion, lipids are packaged for transport as lipoproteins known as:
 - a. HDL.
 - b. VLDL.
 - c. LDL.
 - d. chylomicrons.
- 52. Which of the following is not part of the structure of a chylomicron?
 - a. phospholipid
 - b. protein
 - c. triglyceride
 - d. water-soluble vitamins
- 53. The lymphatic system:
 - a. contains fluid with the same composition as blood.
 - b. eventually drains into the blood circulatory system.
 - c. carries chylomicrons to the intestines.
 - d. is where metabolism of nutrients takes place.
- 54. When nutrients enter the blood vessels from the small intestine, they are first transported to the:
 - a. kidney.
 - b. liver.
 - c. cells throughout the body.
 - d. thoracic duct.

- 55. Which of the following is the body's major metabolic organ?
 - a. pancreas
 - b. small intestine
 - c. gallbladder
 - d. liver
- 56. Elevated LDL concentrations 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 amounts of fat that is deposited around the heart.
 - encourage high levels of iron in the blood.
 - take excess cholesterol back to the liver, which increases the production of cholesterol.
- 57. Elevated HDL concentrations are associated with a low risk of heart disease because they:
 - a. transport newly absorbed lipids from intestinal cells to the rest of the body.
 - 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. take excess cholesterol and phospholipids from the tissues and return them to the liver.
- 58. The lipoprotein that contains the greatest proportion of triglyceride is the:
 - a. HDL.
 - b. LDL.
 - c. VLDL.
 - d. chylomicron.
- 59. Which of the following factors is not required for optimal health and performance of the digestive system?
 - a. adequate sleep
 - b. enzyme supplements
 - c. mental state
 - d. nutrition

- 60. Which of the following will cause a foodborne infection?
 - foods containing toxin-producing microbes
 - b. Clostridium botulinum
 - c. Campylobacter jejuni
 - d. Staphylococcus aureus
- 61. To prevent bacterial growth when holding cooked foods, they should be kept at ______° F or higher until served.
 - a. 40
 - b. 140
 - c. 165
 - d. 200

- 62. To prevent foodborne illnesses:
 - a. Fresh produce should be washed before it is eaten.
 - b. Only new sponges and towels should be used in the kitchen.
 - Leftovers can safely be covered and left at room temperature until the next meal.
 - d. Meats should be marinated at room temperature.
- 63. 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
- 64. Leftovers should be used within ____ days.
 - a. 5-7
 - b. 3-4
 - c. 2-3
 - d. 1-2

Essay

- 1. Outline and trace the path food follows through the digestive tract from one end to the other.
- 2. Describe the role of the stomach in the process of digestion.
- 3. Should antacids be taken to decrease the strong acidity of the stomach? Explain your answer.
- 4. Explain what determines the rate of digestion of the energy nutrients.
- 5. Explain the benefits of intestinal microflora to health.
- 6. Describe the difference between low-density lipoproteins (LDL) and high-density lipoproteins (HDL). What is the relationship between blood levels of these lipoproteins and risk of heart disease?

Matching

1.	anus	a.	the oral cavity containing the tongue and teeth.
2.	appendix	b.	the passageway leading from the nose and mouth to the larynx and
3.	duodenum		esophagus, respectively.
4.	epiglottis	c.	a cartilage structure in the throat that prevents fluid or food from entering the trachea when a person swallows.
5.	esophagus	d.	the passageway from the mouth and nose to the lungs.
6.	gallbladder	e.	the conduit from the mouth to the stomach.
7.	ileocecal valve	f.	the sphincter muscle at the junction between the esophagus and the
8.	ileum		stomach.
9.	jejunum	g.	the sphincter muscle separating the stomach from the small intestine.
10.	large intestine	h.	the organ that stores and concentrates bile.
11.	lower esophageal	i.	a gland that secretes enzymes and digestive juices into the duodenum.
12.	sphincter mouth	j.	a 10-foot length of small-diameter (1-inch) intestine that is the major site of digestion of food and absorption of nutrients.
13.	pancreas	k.	the top portion of the small intestine.
14.	pharynx	1.	the first two-fifths of the small intestine beyond the duodenum.
15.	pyloric sphincter	m.	the last segment of the small intestine.
16.	rectum	n.	the sphincter muscle separating the small and large intestines.
17.	small intestine	o.	the last portion of the intestine, which absorbs water.
18.	trachea	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.
19.	chylomicrons	a.	class of lipids composed of glycerol with three fatty acids attached.
	high-density	b.	the lipoproteins that transport lipids from the intestinal cells into the
_0.	lipoproteins	~•	body.
21.	lipoprotein	c.	a cluster of lipids associated with proteins that serves as a transport
22.	low-density		vehicle for lipids in the lymph and blood.

- 22. low-density lipoproteins
- 23. triglycerides
- 24. very-low-density lipoproteins
- d. the type of lipoproteins made primarily by liver cells to transport lipids to various tissues in the body; composed primarily of triglycerides.
- e. the type of lipoproteins derived from VLDL as cells remove triglycerides from them; composed primarily of cholesterol.
- the type of lipoproteins that transport cholesterol back to the liver from peripheral cells; composed primarily of protein.

Multiple Choice

	Tupic Choic			
1.	ANS: c	DIF: Knowledge-level	REF: 38	TOP: 2.1
2.	ANS: d	DIF: Knowledge-level	REF: 38	TOP: 2.1
3.	ANS: b	DIF: Knowledge-level	REF: 39	TOP: 2.1
4.	ANS: b	DIF: Knowledge-level	REF: 39	TOP: 2.1
5.	ANS: d	DIF: Knowledge-level	REF: 39	TOP: 2.1
6.	ANS: d	DIF: Knowledge-level	REF: 40	TOP: 2.1
7.	ANS: a	DIF: Knowledge-level	REF: 40	TOP: 2.1
8.	ANS: a	DIF: Knowledge-level	REF: 40	TOP: 2.1
9.	ANS: b	DIF: Knowledge-level	REF: 40	TOP: 2.1
10.	ANS: c	DIF: Knowledge-level	REF: 40	TOP: 2.1
11.	ANS: e	DIF: Knowledge-level	REF: 40	TOP: 2.1
12.	ANS: a	DIF: Knowledge-level	REF: 41	TOP: 2.1
13.	ANS: a	DIF: Knowledge-level	REF: 43	TOP: 2.2
14.	ANS: c	DIF: Knowledge-level	REF: 43	TOP: 2.2
15.	ANS: c	DIF: Knowledge-level	REF: 43	TOP: 2.2
16.	ANS: c	DIF: Knowledge-level	REF: 43	TOP: 2.2
17.	ANS: a	DIF: Knowledge-level	REF: 43	TOP: 2.2
18.	ANS: d	DIF: Knowledge-level	REF: 43	TOP: 2.2
19.	ANS: c	DIF: Knowledge-level	REF: 44	TOP: 2.2
20.	ANS: b	DIF: Knowledge-level	REF: 44	TOP: 2.2
21.	ANS: a	DIF: Knowledge-level	REF: 44	TOP: 2.2
22.	ANS: c	DIF: Knowledge-level	REF: 44	TOP: 2.2
23.	ANS: a	DIF: Knowledge-level	REF: 44	TOP: 2.2
24.	ANS: c	DIF: Knowledge-level	REF: 44	TOP: 2.2
25.	ANS: a	DIF: Knowledge-level	REF: 44	TOP: 2.2
26.	ANS: d	DIF: Knowledge-level	REF: 44	TOP: 2.2
27.	ANS: b	DIF: Knowledge-level	REF: 44	TOP: 2.2
28.	ANS: a	DIF: Knowledge-level	REF: 44	TOP: 2.2
29.	ANS: a	DIF: Application-level	REF: 44	TOP: 2.2
30.	ANS: d	DIF: Knowledge-level	REF: 44	TOP: 2.2
31.	ANS: a	DIF: Knowledge-level	REF: 44	TOP: 2.2
32.	ANS: d	DIF: Knowledge-level	REF: 43-44	TOP: 2.2
33.	ANS: d	DIF: Knowledge-level	REF: 43	TOP: 2.2
34.	ANS: a	DIF: Application-level	REF: 45	TOP: 2.2
	ANS: a	DIF: Knowledge-level	REF: 45	TOP: 2.2
36.	ANS: b	DIF: Application-level	REF: 45	TOP: 2.2
37.	ANS: a	DIF: Application-level	REF: 45	TOP: 2.2
38.	ANS: a	DIF: Application-level	REF: 45	TOP: 2.2
39.	ANS: d	DIF: Knowledge-level	REF: 45	TOP: 2.2
40.	ANS: d	DIF: Knowledge-level	REF: 45	TOP: 2.2
	ANS: c	DIF: Knowledge-level	REF: 45	TOP: 2.2
	ANS: b	DIF: Knowledge-level	REF: 45	TOP: 2.2
	ANS: a	DIF: Knowledge-level	REF: 45	TOP: 2.2
	ANS: a	DIF: Knowledge-level	REF: 45	TOP: 2.2
45.	ANS: c	DIF: Knowledge-level	REF: 45	TOP: 2.3

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46.	ANS: c	DIF: Knowledge-level	REF: 45	TOP: 2.3
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	ANS: a	DIF: Knowledge-level	REF: 47	TOP: 2.3
	ANS: a	DIF: Knowledge-level	REF: 47	TOP: 2.3
	ANS: d	DIF: Knowledge-level	REF: 47	TOP: 2.3
	ANS: d	DIF: Knowledge-level	REF: 47	TOP: 2.3
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	ANS: b	DIF: Knowledge-level	REF: 48	TOP: 2.4
	ANS: b	DIF: Knowledge-level	REF: 48	TOP: 2.4
	ANS: d	DIF: Knowledge-level	REF: 48	TOP: 2.4
	ANS: a	DIF: Knowledge-level	REF: 48-49	TOP: 2.4
	ANS: d	DIF: Application-level	REF: 48-49	TOP: 2.4
	ANS: d	DIF: Knowledge-level	REF: 50	TOP: 2.4
	ANS: b	DIF: Knowledge-level	REF: 51	TOP: 2.5
	ANS: c	DIF: Knowledge-level	REF: 53-55	TOP: NIP 2
	ANS: b	DIF: Knowledge-level	REF: 58	TOP: NIP 2
	ANS: a	DIF: Application-level	REF: 58	TOP: NIP 2
	ANS: a	DIF: Knowledge-level	REF: 58	TOP: NIP 2
	ANS: b	DIF: Knowledge-level	REF: 58	TOP: NIP 2
		O		
Ess	say			
1.	DIF: Know	ledge-level	REF: 38-40	TOP: 2.1
2.		ledge-level	REF: 41-42 43-44	TOP: 2.1 2.2
3.		cation-level	REF: 43-44	TOP: 2.2
4.	DIF: Know	_	REF: 45	TOP: 2.2
5.		ledge-level	REF: 45	TOP: 2.2
6.	DIF: Know	ledge-level	REF: 48-50	TOP: 2.4
Ma	tching			
1.	ANS: r	DIF: Knowledge-level	REF: 38	TOP: 2.1
2.	ANS: p	DIF: Knowledge-level	REF: 38	TOP: 2.1
3.	ANS: k	DIF: Knowledge-level	REF: 38	TOP: 2.1
4.	ANS: c	DIF: Knowledge-level	REF: 38	TOP: 2.1
5.	ANS: e	DIF: Knowledge-level	REF: 38	TOP: 2.1
6.	ANS: h	DIF: Knowledge-level	REF: 38	TOP: 2.1
7.	ANS: n	DIF: Knowledge-level	REF: 38	TOP: 2.1
8.	ANS: m	DIF: Knowledge-level	REF: 38	TOP: 2.1
9.	ANS: 1	DIF: Knowledge-level	REF: 38	TOP: 2.1
10.	ANS: o	DIF: Knowledge-level	REF: 38	TOP: 2.1
	ANS: f	DIF: Knowledge-level	REF: 38	TOP: 2.1
	ANS: a	DIF: Knowledge-level	REF: 38	TOP: 2.1
	ANS: i	DIF: Knowledge-level	REF: 38	TOP: 2.1
	ANS: b	DIF: Knowledge-level	REF: 38	TOP: 2.1
	ANS: g	DIF: Knowledge-level	REF: 38	TOP: 2.1
	ANS: q	DIF: Knowledge-level	REF: 38	TOP: 2.1
	ANS: j	DIF: Knowledge-level	REF: 38	TOP: 2.1
	ANS: d	DIF: Knowledge-level	REF: 38139	TOP: 2.1
19.	ANS: b	DIF: Knowledge-level	REF: 47	TOP: 2.3
		-		

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20. ANS: f 21. ANS: c	DIF: Knowledge-level DIF: Knowledge-level	REF: 48 REF: 47	TOP: 2.4 TOP: 2.3	
21. ANS: e	DIF: Knowledge-level	REF: 48	TOP: 2.4	
23. ANS: a 24. ANS: d	DIF: Knowledge-level DIF: Knowledge-level	REF: 47 REF: 48	TOP: 2.3 TOP: 2.4	

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