## Test Bank for Nutrition for Life 3rd Edition by Thompson

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## *Nutrition for Life, 3e* (Thompson) Chapter 2 The Human Body: Are We Really What We Eat?

**Multiple-Choice Questions** 

Which of the following are grouped together to perform an integrated function?
 A) molecules
 B) tissues
 C) systems
 D) organelles
 Answer: C
 Page Ref: 45

2) Which of the following is MOST responsible for prompting individuals to seek food?
A) stomach
B) small intestine
C) hypothalamus
D) mouth
Answer: C
Page Ref: 38

3) Which physiological trigger(s) will result in the sensation of hunger?
A) low glucose levels
B) high glucose levels
C) release of the chemical messengers leptin and serotonin
D) eating a meal with a high satiety value
Answer: A
Page Ref: 38

4) Hunger is best described as
A) a physiological desire to find food and eat.
B) a psychological desire to find food and eat.
C) eating that is often driven by environmental cues.
D) eating that is often driven by emotional cues.
Answer: A
Page Ref: 38

5) Which of the following is NOT a regulator of satiety in the body?A) GI tractB) hypothalamusC) hormonesD) kidneysAnswer: DPage Ref: 39

1 Copyright © 2013 Pearson Education, Inc. 6) Which of the following snacks will have the highest satiety value, assuming the calories and relative size are similar?
A) slice of whole-grain bread
B) piece of cheese
C) glass of whole milk
D) glass of skim milk
Answer: B
Page Ref: 39

7) The smallest units of matter that cannot be broken down by natural means are A) atoms.
B) molecules.
C) cells.
D) lipids.
Answer: A
Page Ref: 43

8) The human body is organized into the following structural levels (smallest to largest)
A) molecules: atoms: organs: systems: tissues: cells.
B) atoms: molecules: cells: tissues: organs: systems.
C) organs: tissues: molecules: systems: atoms: organs.
D) atoms: cells: systems: tissues: molecules: organs.
Answer: B
Page Ref: 43-45

9) Cell membranes are

A) very rigid and resistant to all noncellular molecules.

B) semipermeable.

C) the organelles responsible for ATP production.

D) chemical messengers that are secreted into the bloodstream by a gland.

Answer: B

Page Ref: 43

10) In which organelle is the cell's DNA located?
A) nucleus
B) mitochondria
C) cell membrane
D) cytoplasm
Answer: A
Page Ref: 45

11) The "powerhouses" of the cell that produce energy from food molecules are the A) mitochondria.B) ribosomes.C) nuclei.D) cytoplasm.Answer: APage Ref: 45

12) What is the term that describes the process by which the foods we eat are broken down into smaller components by either mechanical or chemical means?

A) digestionB) absorptionC) eliminationD) peristalsisAnswer: APage Ref: 45

13) Which of the following is NOT a role that the liver plays in digestion and absorption of nutrients?

A) Filters the blood, removing potential toxins such as alcohol and drugs.

B) Secretes insulin and glucagon to assist in the regulation of blood glucose concentrations.

C) Receives the products of digestion from the small intestine and releases nutrients depending on body needs.

D) Synthesizes bile to assist in the digestion and absorption of fat. Answer: B

Page Ref: 52-53

14) Most digestion and absorption occurs in the

A) stomach.B) esophagus.C) small intestine.D) mouth.Answer: CPage Ref: 50

15) Juanita eats her breakfast, and her GI tract then begins the process of digesting and absorbing the nutrients from this meal. What is the order in which each of the organs of the GI tract will work to achieve this process?

A) mouth: esophagus: small intestine: stomach: large intestine

B) mouth: esophagus: stomach: small intestine: large intestine

C) mouth: stomach: esophagus: small intestine: large intestine

D) mouth: stomach: esophagus: large intestine: small intestine

Answer: B

Page Ref: 45

16) The mechanical and chemical digestion of food is initiated in the A) mouth.B) small intestine.C) stomach.D) esophagus.Answer: APage Ref: 46-47

17) Salivary amylase is a(n)A) hormone.B) antibody.C) bicarbonate.D) enzyme.Answer: DPage Ref: 47

18) Which best explains why carbohydrate digestion ceases when food reaches the stomach?A) Carbohydrate is completely digested in the mouth.B) Salivary amylase cannot function in the acid environment of the stomach.C) Carbohydrate is completely absorbed in the esophagus.D) Intestinal bacteria are needed for carbohydrate digestion.Answer: B

Page Ref: 47

19) Which of the following is NOT a component of the gastric juices?A) hydrochloric acidB) pepsinC) insulinD) gastric lipaseAnswer: CPage Ref: 49

20) What is chyme?A) ulcerations of the esophageal liningB) healthy bacteria of the small intestineC) mixture of partially digested food, water, and gastric juicesD) substance that allows for the emulsification of dietary lipidAnswer: CPage Ref: 49

21) A primary function of the mucus in the stomach is toA) neutralize stomach acid.B) activate pepsinogen to form pepsin.C) protect stomach cells from digestion.D) emulsify fats.Answer: CPage Ref: 49

22) Which of the macronutrients is NOT broken down chemically in the stomach?
A) protein
B) carbohydrate
C) fat
D) vitamin C
Answer: B
Page Ref: 49
23) Proteins that induce chemical changes to speed up body processes are called

A) hormones.B) peptides.C) enzymes.D) chymes.Answer: CPage Ref: 47

24) The brush border is located in the A) esophagus.B) stomach.C) small intestine.D) large intestine.Answer: CPage Ref: 51

25) What is the name of the sphincter that separates the esophagus and the stomach?A) pyloricB) gastroesophagealC) ileocecalD) rectalAnswer: BPage Ref: 48

26) The last section of the small intestine that connects to the ileocecal valve is called the A) bile duct.B) duodenum.C) jejunum.D) ileum.Answer: DPage Ref: 51

27) Responding to the presence of fat in our meal, the gallbladder releases a substance called A) lipase.

B) pepsin.C) chyme.D) bile.Answer: D

Page Ref: 51

28) What roles do the hormones insulin and glucagon play in signaling hunger?

A) They detect changes in pressure in the stomach.

B) They stimulate release of digestive juices.

C) The respond to changing glucose levels and signal the hypothalamus.

D) They initiate movements in the GI tract known as "hunger pangs."

Answer: C

Page Ref: 38-39

29) The fingerlike projections of the small intestine that increase surface area and allow for the absorption of nutrients are called

A) villi.B) lacteals.C) sphincters.D) diverticuli.

Answer: A

Page Ref: 51

30) Which circulatory system carries most of the fats and fat-soluble nutrients?

A) vascularB) mesentericC) lymphaticD) enterohepaticAnswer: CPage Ref: 52

31) Which large vessel transports absorbed nutrients to the liver?
A) portal vein
B) pulmonary vein
C) aorta
D) subclavian vein
Answer: A
Page Ref: 52

32) In which organ does the majority of water absorption occur?A) mouthB) stomachC) small intestineD) large intestineAnswer: DPage Ref: 51

33) Collectively, the nerves of the gastrointestinal tract are referred to asA) peptic nerves.B) hepatic nerves.C) enteric nerves.D) gastric nerves.Answer: CPage Ref: 45

34) If a person has GERD, which of the following is probably malfunctioning?
A) gallbladder
B) pancreas
C) epiglottis
D) gastroesophageal sphincter
Answer: D
Page Ref: 56

35) What is the primary cause of peptic ulcers?
A) stress
B) *H. pylori* bacteria
C) prolonged use of aspirin
D) eating too many spicy foods
Answer: B
Page Ref: 57

36) Which of the following would be an appropriate treatment approach for someone who has GERD?A) surgical removal of the gallbladderB) omission of all lactose foodsC) antibiotic therapyD) lose weight and quit smokingAnswer: D

Page Ref: 57

37) Which of the following statements best describes irritable bowel syndrome (IBS)?A) an erosion of the gastrointestinal tract caused by the overproduction of hydrochloric acidB) an immune response resulting from the ingestion of an allergenC) a hypersensitivity to wheat resulting in diarrhea and bloatingD) a bowel disorder that interferes with the colon; no definite cause is knownAnswer: DPage Ref: 64

38) Mary experiences anaphylactic shock after eating a peanut butter sandwich. What is the most appropriate treatment for Mary?

A) IV glucose

B) Tylenol or another pain medicationC) antibioticsD) epinephrineAnswer: DPage Ref: 60

39) The liquid within an animal cell is known asA) gastric juice.B) glucagon.C) cytoplasm.D) mitochondria.Answer: CPage Ref: 44

40) The psychological desire that encourages us to seek out a particular food isA) hunger.B) appetite.C) satiety.D) anorexia.Answer: BPage Ref: 38

41) The the region of the forebrain where physiological signals are translated into thirst and hunger messages is the
A) pituitary gland.
B) adrenal gland.
C) thalamus.
D) hypothalamus.
Answer: D
Page Ref: 38

42) Secreted from many glands of the body, hormones acts as

A) "powerhouses" of cells.

B) chemical messengers that trigger a physiological response.

C) absorptive features that increase the surface area of the small intestine.

D) fat emulsifiers.

Answer: B

Page Ref: 38

43) In contrast to hunger, appetite is triggered by

A) signals from nerve cells in the stomach lining.

B) insulin and glucagon.

C) satiety.

D) the sensory appeal of foods and their learned social and cultural associations.

Answer: D

Page Ref: 40

44) The state in which a person has a physiologic need for food but no appetite is known as A) anorexia.

B) peristalsis.

C) satiety.

D) hunger.

Answer: A

Page Ref: 38

45) A functional grouping of similar cells is known as a(n)
A) atom.
B) molecule.
C) tissue.
D) organ.
Answer: C
Page Ref: 45

46) Tight rings of muscles that control the movement of food through the organs of the gastrointestinal tract are known as
A) villi.
B) microvilli.
C) mitochondria.
D) sphincters.
Answer: D
Page Ref: 45

47) Approximately how long is the human GI tract?
A) 30 inches
B) 30 feet
C) 50 inches
D) 50 feet
Answer: B
Page Ref: 45
48) Elimination is the bodily process in which
A) undigested portions of food and waste are removed from the body.
B) the products of digestion are taken through the wall of the intestine.
C) food is chemically and physically broken down into component molecules.
D) probiotics are produced.
Answer: A
Page Ref: 45

49) Carbohydrate digestion begins in the A) mouth.B) stomach.C) small intestine.D) large intestine.Answer: APage Ref: 47

50) Protein digestion begins in the A) mouth.B) stomach.C) small intestine.D) large intestine.Answer: BPage Ref: 49

51) Which structure keeps food from entering the trachea during swallowing?A) upper esophageal sphincterB) lower esophageal sphincterC) soft palateD) epiglottisAnswer: DPage Ref: 48

52) The wavelike contractions that move food along the GI tract are known as A) proteases.B) pepsin.C) peristalsis.D) pituitary glands.Answer: CPage Ref: 48

True/False Questions

1) Atoms are the smallest units of matter. Answer: TRUE Page Ref: 43

2) The cell's nucleus is the organelle responsible for producing energy from food molecules.Answer: FALSEPage Ref: 45

3) Hunger is the physical sensation that drives humans to eat.Answer: TRUEPage Ref: 38

4) The primary organ producing the sensation of hunger is the stomach.Answer: FALSEPage Ref: 38

5) Foods containing carbohydrate have the highest satiety value. Answer: FALSE Page Ref: 39

6) Overall, very little digestion occurs in the human mouth. Answer: TRUE Page Ref: 47

7) Typically, ingested food remains in the stomach for 2 hours prior to traveling to the small intestine.Answer: TRUEPage Ref: 50

8) The pancreas is the largest digestive organ. Answer: FALSE Page Ref: 52

9) The small intestine is the longest portion of the human GI tract.Answer: TRUEPage Ref: 50

10) The majority of nutrient absorption takes place in the stomach. Answer: FALSE Page Ref: 50

11) Since they do not require further digestion, dietary vitamins and minerals are small enough to be absorbed by the gastrointestinal tract.Answer: TRUEPage Ref: 50-51

12) The presence of any bacteria in the large intestine indicates a potentially serious systemic allergic reaction that can be fatal if left untreated.Answer: FALSEPage Ref: 54

13) The most common symptom of GERD is chronic diarrhea. Answer: FALSE Page Ref: 56

14) Irritable bowel syndrome is more common among women than men.Answer: TRUEPage Ref: 64

15) The sigmoid colon is the first segment of the large intestine. Answer: FALSE Page Ref: 54

16) Food allergies cause an immune response by the body.Answer: TRUEPage Ref: 59

17) Most instances of constipation are caused by intestinal bacteria.Answer: FALSEPage Ref: 64

18) Diarrhea and dehydration are the most serious potential reactions when consuming an allergenic food product.Answer: FALSEPage Ref: 59-60

19) Untreated diarrhea can be fatal in young children. Answer: TRUE Page Ref: 62

20) Currently, the only treatment for celiac disease is a diet free of wheat, barley, and rye. Answer: TRUE Page Ref: 61

21) Adults cannot learn to enjoy a food unless it was introduced to them in childhood. Answer: FALSE Page Ref: 41

22) Produced by the liver, bile is stored in the gallbladder and emulsifies fats in the small intestine.Answer: TRUEPage Ref: 51

23) The brush border is a term that describes the microvilli of the large intestine's lining.Answer: FALSEPage Ref: 51

24) The gallbladder secretes bicarbonate into the small intestine to neutralize the acidity of chyme.Answer: FALSEPage Ref: 51

25) Celiac disease can only be diagnosed with a blood test. Answer: FALSE Page Ref: 61

**Essay Questions** 

1) Starting at the mouth and ending at the rectum, describe the process of human digestion and absorption. Page Ref: 46-54

2) Describe the symptoms and treatment of irritable bowel syndrome (IBS). Page Ref: 64

3) Describe the lining of the small intestine. How does its unique structure contribute to the process of nutrient absorption? Page Ref: 51

4) What is the difference between a food intolerance and a food allergy? Page Ref: 59-61

Questions from Chapter Boxes

1) Bile reacts with fats in a similar way as soap does. Answer: TRUE Page Ref: 51

2) Probiotics have been shown to be effective in treatingA) traveler's diarrhea.B) food allergies.C) gastroesophageal reflux disease (GERD).D) diabetes mellitus.Answer: APage Ref: 55

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3) Traveler's diarrhea is caused by
A) food allergies.
B) stress.
C) antibiotic overuse.
D) viral or bacterial infections.
Answer: D
Page Ref: 63

4) One appetizing and safe alternative to barley for people with celiac disease is
A) wheat.
B) gluten.
C) Job's tears.
D) rye.
Answer: C
Page Ref: 62

5) Because the activity of probiotics in the GI tract is short-lived, they need to be consumed on a daily basis to be effective.Answer: TRUEPage Ref: 55

6) Which of the following food sources is a rich source of probiotics?
A) whole-wheat bread
B) yogurt
C) orange juice
D) calcium supplements
Answer: B
Page Ref: 55

7) The emerging field of nutrigenomics studies how nutrition and environment can affect gene function.Answer: TRUEPage Ref: 44

8) What are probiotics and how are they involved in keeping us healthy? Page Ref: 55

9) List the eight major allergenic foods. Explain how and why the U.S. Food and Drug Administration (FDA) regulates these ingredients in packaged foods. Page Ref: 59

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