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# **Chapter 3 - The Remarkable Body**

UL	HP	LE CHOICE					
1.	a. b. c.	speed up chemica building blocks o vital components self-contained liv	al reacti f the bo of food	ons ody ls	present	s cells?	
	AN	S: D	PTS:	1	REF:	Page 76	BLM: Remember
2.	a. b. c.	ong with oxygen, v alcohol energy proteins fats	what is	one of the cells	' most	basic needs?	
	AN	IS: B	PTS:	1	REF:	Page 76	BLM: Remember
3.	a. b. c.	average, how ofte every 3 days every 2 weeks every 4 months every 12 months	n do th	e cells lining th	e diges	tive tract replac	ce themselves?
	AN	S: A	PTS:	1	REF:	Page 76	BLM: Remember
4.	or c a. b. c.	nich of the following disease? red blood cells muscle cells brain cells skin cells	ng type:	s of cells are ur	nable to	reproduce and	are lost forever if damaged by injury
	AN	S: C	PTS:	1	REF:	Page 76	BLM: Remember
5.	a. b. c.	genes enzymes red blood cells organs	ng body	components d	etermir	nes the nature o	f the cell's work?
	AN	S: A	PTS:	1	REF:	Page 77	BLM: Remember

6. What do cells release as a waste product from the burning of oxygen and nutrients?

a. water

b. glycogen

c. amino acids

d. carbon dioxide

ANS: D PTS: 1 REF: Page 78 BLM: Remember

7.	<ul><li>Which of the follow</li><li>a. blood</li><li>b. lymph</li><li>c. plasma</li><li>d. intracellular flui</li></ul>	C	s moves from t	the bloc	odstream into ti	ssue spaces?
	ANS: B	PTS:	1	REF:	Page 78	BLM: Remember
8.	Which one of the fortissues? a. gallbladder b. small intestine c. kidneys d. liver	llowing (	organs chemica	ally alte	rs materials so	that they can be used by other
	ANS: D	PTS:	1	REF:	Page 80	BLM: Remember
9.	Which of the follow blood sugar (glucose a. insulin b. grehlin c. glucagon d. epinephrine	_	nones is release	ed by th	e pancreas in re	esponse to a high concentration of
	ANS: A	PTS:	1	REF:	Page 82	BLM: Remember
10.	What is the name for body?  a. glycogen and liver c. glucagon and pad. thyroxin and thy	ver increas	mone and the o	organ th	at respond to a	drop in blood glucose levels in the
	ANS: C	PTS:	1	REF:	Page 82	BLM: Higher order
11.	What is the name for pancreatic fluid for ta. pepsinb. proteasesc. secretind. cholecystokinin			by the	small intestine	and signals the pancreas to release
	ANS: C	PTS:	1	REF:	Page 82	BLM: Remember
12.	<ul><li>Which of the follow</li><li>a. The liver release</li><li>b. The muscles rele</li><li>c. The digestive sy</li><li>d. The blood press</li></ul>	es glucos ax. estem slo	se from its store	_	rt of the stress	response?
	ANS: A	PTS:	1	REF:	Page 83	BLM: Remember

13.	a. liver b. pancreas c. spinal cord d. brain	e nervol	is system's role	e in hun	ger regulation?	
	ANS: D	PTS:	1	REF:	Page 83	BLM: Remember
14.	Why might a person a. The stomach into b. The conscious m c. The digestive tra d. The hypothalam	ensifies aind of t act sends	its contractions the cortex can consist messages to the	s and croverride he hypo	eates hunger pa body signals. othalamus.	
	ANS: B	PTS:	1	REF:	Page 83	BLM: Higher order
15.	What is the name for glucose content and a. cerebrum b. pituitary gland c. hypothalamus d. frontal lobe			hat sens	es a variety of	conditions in the blood, such as
	ANS: C	PTS:	1	REF:	Page 83	BLM: Remember
16.	What is the term use inactivate specific ar a. phagocytes b. helper T-cells c. antibodies d. microbes			made by	y the immune sy	ystem that combine with and
	ANS: C	PTS:	1	REF:	Page 84	BLM: Remember
17.	Which of the follows  a. phagocytes  b. T-cells  c. lymphocytes  d. B-cells	ng cells	s is the first to o	defend t	he body tissues	s against invaders?
	ANS: A	PTS:	1	REF:	Page 84	BLM: Remember
18.	Which cells release a a. helper T-cells b. T-cells c. A-cells d. B-cells	ntibodi	es into the bloc	odstrear	n to fight infect	tion?
	ANS: D	PTS:	1	REF:	Page 84	BLM: Remember

19.	<ul><li>Which of the following</li><li>a. antibodies</li><li>b. T-cells</li><li>c. B-cells</li><li>d. phagocytes</li></ul>	ng pose	s a formidable	obstacl	e to a successfu	ıl organ	transplant?
	ANS: B	PTS:	1	REF:	Page 84	BLM:	Remember
20.	What is the name of ta. cystic fibrosis b. AIDS c. muscular dystrop d. diabetes		ase in which th	e body <sup>:</sup>	's helper T-cell	s are att	acked and destroyed?
	ANS: B	PTS:	1	REF:	Page 84	BLM:	Higher order
21.	Which of the following a. secreting b. gastring c. grehling d. glucagon	ng horn	nones is though	nt to be	a "hunger horn	none?"	
	ANS: C	PTS:	1	REF:	Page 85	BLM:	Remember
22.	What is the major rol a. making chyme b. pushing food thro c. helping nutrients d. reabsorbing water	ough the	e digestive trac	t	istalsis?		
	ANS: B	PTS:	1	REF:	Page 86	BLM:	Remember
23.	Human taste buds have a. pears b. pudding c. broccoli d. fruit juice	ve an in	born aversion	for whi	ch of the follow	ving foo	od items?
	ANS: C	PTS:	1	REF:	Page 86	BLM:	Higher order
24.	Which of the following a. It manufactures etc. It adds acid and for a lit reabsorbs water d. It conducts bile to	enzymes luid to r and m	s to digest all entre the large intest inerals.	nergy y		ts.	
	ANS: A	PTS:	1	REF:	Page 87	BLM:	Remember

25.	<ul> <li>What is the primary task of the colon during digestion and absorption of food?</li> <li>a. reabsorption of water</li> <li>b. neutralizing stomach acid</li> <li>c. absorption of vitamins</li> <li>d. breakdown of proteins</li> </ul>								
	ANS: A	PTS:	1	REF:	Page 88	BLM:	Remember		
26.	What is the major si a. mouth b. small intestine c. large intestine d. stomach	te of dig	estion and abso	orption	of nutrients?				
	ANS: B	PTS:	1	REF:	Page 88	BLM:	Remember		
27.	What is the name of into the small intesti a. esophageal sphi b. intestinal valve c. pyloric valve d. colon valve	ne?	cle that is respo	onsible	for controlling	the rele	ease of partly digested food		
	ANS: C	PTS:	1	REF:	Page 88	BLM:	Remember		
28.	In what part of the b a. stomach b. mouth c. liver d. small intestine	ody does	s chemical dige	estion b	egin?				
	ANS: B	PTS:	1	REF:	Page 89	BLM:	Remember		
29.	The stomach's main a. carbohydrate b. fat c. fibre d. protein		_						
	ANS: D	PTS:	1	REF:	Page 90	BLM:	Remember		
30.	You have just consusubstance? a. bile b. hydrochloric acic. mucus d. bicarbonate		eal very high i	n fat. A	s a result, horn	nones ca	ause the release of what		
	ANS: A	PTS:	1	REF:	Page 90	BLM:	Higher order		

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31.	Which of the followstomach before enteral bile b. chyme c. gastric juice d. bicarbonate				an effort to neu	ntralize the acidic contents of the
	ANS: D	PTS:	1	REF:	Page 90-91	BLM: Remember
32.	The lymphatic vess digestion? a. fat b. protein c. minerals d. carbohydrate	els are in	itially respons	ible for	transporting w	which of the following products of
	ANS: A	PTS:	1	REF:	Page 95	BLM: Remember
33.	As a person become the following ways a. It expands in leb. It becomes more. It decreases in a d. It remains unch	? ngth. e efficier size.		sorptive	e surface of the	e small intestine responds in which of
	ANS: C	PTS:	1	REF:	Page 95	BLM: Higher order
34.	What is the common acid into the esophata. hernia b. hiccups c. ulcer d. heartburn		or the burning	sensatio	on in the chest	area caused by backflow of stomach
	ANS: D	PTS:	1	REF:	Page 95	BLM: Higher order
35.	Which of the followa. Rinse canned bb. Chew gum betwood. Suck on hard cad. Increase consum	eans befo ween mea andies af	ore consuming als. ter eating a fatt	them. Ty meal.	-	e most accurate?
	ANS: A	PTS:	1	REF:	Page 96	BLM: Higher order
36.	What should you do a. Drink liquids d b. Wear tight fitting. Eat smaller me	uring me ng clothii	als.	)		

REF: Page 95–96 BLM: Higher order

PTS: 1

d. Lie down after meals.

ANS: C

37.	<ul> <li>Which of the following recommendations would assist most with the long-term alleviation of constipation?</li> <li>a. Take a laxative.</li> <li>b. Drink enough water.</li> <li>c. Limit physical activity.</li> <li>d. Consume foods with starch.</li> </ul>							
	ANS: B	PTS:	1	REF:	Page 98	BLM: Higher order		
38.	How long does it tak a. 1–3 hours b. 3–6 hours c. 4–8 hours d. 6–9 hours	te for the	e liver's glycog	en supp	oly to be deplet	ed if it is not replenished by food?		
	ANS: B	PTS:	1	REF:	Page 99	BLM: Remember		
39.	Which of the following a. fat-containing for b. mineral-rich food. vitamin-rich food. carbohydrate-cond.	oods ds ds	·	o consi	ume in interval	s throughout the day?		
	ANS: D	PTS:	1	REF:	Page 99	BLM: Remember		
40.	The body is able to s a. fat b. water c. protein d. glycogen	tore pot	entially large a	mounts	of which nutri	ent?		
	ANS: A	PTS:	1	REF:	Page 99	BLM: Remember		
41.	What are the recommod woman?  a. 3 drinks per day  b. 4 drinks on any of the commod the	occasior eek		onsump	tion of alcohol	for the average-sized healthy		
	ANS: C	PTS:	1	REF:	Page 102	BLM: Remember		
42.	What is the percenta a. 10% b. 45% c. 63% d. 90%	ge of alo	cohol in 90 prod	of liquo	or?			
	ANS: B	PTS:	1	REF:	Page 103	BLM: Higher order		

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43.	Which of the following a. 50 mL (2 oz) shounds b. 142 mL (5 oz) glace. 250 mL (4 oz) cand. 500 mL (8 oz) both candidates and the following area.	otglass of vass of be	of vodka vine er	lcoholi	e drink?		
	ANS: B	PTS:	1	REF:	Page 104	BLM: Remember	
44.	Which of the following when drinking alcohola. The drinks are mb. Carbohydrate snac. Drinks are consud. The stomach is e	olic bev ixed wi acks are med qu	erages? th very little w consumed at t	ater.	-	intoxicated almost immedia	tely
	ANS: D	PTS:	1	REF:	Page 104	BLM: Higher order	
45.	Which of the following a. brain b. stomach c. pancreas d. liver	ng orga	ns makes most	of the	body's alcohol	-processing machinery?	
	ANS: D	PTS:	1	REF:	Page 105	BLM: Remember	
46.	How does alcohol afta. It strengthens the b. It slows down the c. It alters amino ac d. It decreases uring	e body's e synthe cid meta	s defenses againesis of fatty aci abolism.		ction.		
	ANS: C	PTS:	1	REF:	Page 106	BLM: Remember	
47.	Which of the following a. drinking coffee b. eating food c. walking d. passing of time	ng actio	ons will restore	sobriet	y in someone v	vho has been drinking alcoho	ol?
	ANS: D	PTS:	1	REF:	Page 107	BLM: Higher order	
48.	What vitamin is the	nost dra	amatically affe	cted by	excess alcohol	in the body?	

- a. vitamin A
- b. folate
- c. thiamine
- $d. \quad vitamin \ B_6$

ANS: B PTS: 1 REF: Page 108 BLM: Remember

- 49. What medical condition could be suspected for an individual that reports regularly consuming large amounts of alcohol, has inadequate food intake, and shows signs of poor muscle coordination, paralysis of the eye muscles, and damaged nerves?
  - a. Wernicke-Korsakoff syndrome

	<ul><li>b. osteoporosis</li><li>c. heart disease</li><li>d. stomach ulcer</li></ul>					
	ANS: A	PTS:	1	REF:	Page 108	BLM: Higher order
TRUI	E/FALSE					
1.	Cells form tissues that	at perfo	rm specialized	tasks. T	issues are grou	ped together to form whole organs.
	ANS: T	PTS:	1	REF:	Page 77	
2.	Body fluids provide twater.	tissues	with a continuo	us supp	oly of energy, or	xygen, and nutrients, including
	ANS: T	PTS:	1	REF:	Page 78	
3.	Timing of meals is in	nportan	t because the d	igestive	tract is unable	to digest food at certain times.
	ANS: F	PTS:	1	REF:	Page 88	
4.	The body's saliva is s	strongly	acidic.			
	ANS: F	PTS:	1	REF:	Page 90	
5.	Almost all food prote	ein is di	gested and abso	orbed.		
	ANS: T	PTS.	1	REF.	Page 90	

ANS: T PTS: 1 REF: Page 99

# **MATCHING**

Match the digestive organs with their appropriate functions.

- a. manufacturers bile to help digest fats
- b. releases bile into the small intestine
- c. opens to allow elimination
- d. churns, mixes, and grinds food to liquid mass
- e. reabsorbs water and minerals
- f. stores bile until needed
- g. passes food to the stomach
- h. makes enzymes to aid in the digestion of carbohydrate, protein, and fat
- i. chews and mixes food with saliva
- j. stores waste prior to elimination
- k. contracts rhythmically to move food content along

1.	stomach				
2.	gallbladder				
3.	small intestine				
4.	mouth				
5.	rectum				
6.	esophagus				
7.	anus				
8.	liver				
9.	pancreas				
10.	large intestine				
1.	ANS: D	PTS:	1		
2.	ANS: F	PTS:	1		
3.	ANS: K	PTS:	1		
4.	ANS: I	PTS:	1		
5.	ANS: J	PTS:	1		
6.	ANS: G	PTS:	1		
7.	ANS: C	PTS:	1		
8.	ANS: A	PTS:	1		
9.	ANS: H	PTS:	1		
10.	ANS: E	PTS:	1	REF:	Page 87

# **SHORT ANSWER**

1. Describe how hormones affect nutrition.

### ANS:

Each hormone acts as a messenger that stimulates various organs to take appropriate actions. Hormones regulate hunger and affect appetite. They carry messages to regulate the digestive system. Hormones also regulate the body's reaction to stress, suppressing hunger, and the digestion and absorption of nutrients.

PTS: 1 REF: Page 82

2. Describe what instinctively occurs within the body during the stress response and the number one health consequence for people living in modern civilization.

## ANS:

The stress response is the body's hormone- and nerve-mediated reaction to danger. When danger is detected, nerves release neurotransmitters, and glands supply the compounds epinephrine and norepinephrine. In the modern world, stress is seldom physical, but the body reacts the same way. Modern society's number one enemy is heart disease. Years of fat and other constituents accumulating in the arteries and stresses that strain the heart often lead to heart attacks, especially when a body accustomed to chronic underexertion experiences sudden high blood pressure.

PTS: 1 REF: Page 83-84

3. Briefly describe the actions of the body's phagocytes and lymphocytes.

## ANS:

Phagocytes are white blood cells that can ingest and destroy antigens. When a phagocyte recognizes a foreign particle, the phagocyte forms a pocket in its own outer membrane, engulfing the invader. Then the phagocytes may attack the invader with oxidative chemicals in an "oxidative burst" or may otherwise digest or destroy them. Phagocytes also leave a chemical trail that helps other immune cells to join the defence against infection. Lymphocytes are white blood cells that participate in the immune response. They are known as T-cells and B-cells. Killer T-cells recognize chemical messages from phagocytes and "read" and "remember" the identity of an invader from the messages. They then seek out and destroy all foreign particles with the same identity. B-cells respond rapidly to infection by dividing and releasing invader-fighting proteins – antibodies – into the bloodstream. Antibodies travel to the site of the infection and stick to the surface of the foreign particles, killing or inactivating them. Like T-cells, the B-cells also retain a chemical memory of each invader, and if the encounter recurs, the response is swift.

PTS: 1 REF: Page 84

4. Differentiate between the mechanical and chemical aspects of digestion.

# ANS:

Mechanical digestion begins in the mouth. From there, the digestive tract continues to move food through its various processing chambers. The mechanical actions include chewing, mixing by the stomach, adding fluid, and moving the tract's contents by peristalsis. After digestion and absorption, then wastes are excreted. Chemical digestion begins in the mouth, where food is mixed with an enzyme in saliva that acts on carbohydrates. Digestion continues in the stomach, where stomach enzymes and acid break down protein. Digestion then continues in the small intestine; there the liver and gallbladder contribute bile that emulsifies fat, and the pancreas and small intestine donate enzymes that continue digestion so that absorption can occur. Bacteria in the colon break down certain fibres.

PTS: 1 REF: Page 86-91

5. Explain how the lining of the digestive tract is able to remain intact despite begin in contact with powerful digestive juices and enzymes.

# ANS:

Specialized cells secrete a thick, viscous substance known as mucus. The mucus coats and protects the stomach and the rest of the digestive tract lining from exposure to digestive juices.

PTS: 1 REF: Page 90

6. How would you respond to the statement, "people should not consume fruit and meat at the same meal?"

# ANS:

This is not a valid argument. Proponents of "food-combining" diets claim that the digestive tract cannot perform certain digestive tasks at the same time, but this is a gross underestimation of the tract's capabilities. The digestive system adjusts to whatever mixture of foods is presented to it. The truth is that all foods, regardless of identity, are broken down by enzymes into the basic molecules that make them up.

PTS: 1 REF: Page 91

7. Describe what happens to digestion and absorption in cases of severe undernutrition.

## ANS:

The digestive system's millions of specialized cells are themselves exquisitely sensitive to an undersupply of energy, nutrients, or dietary fibre. In cases of severe undernutrition of energy and nutrients, the absorptive surface of the small intestine shrinks. The surface may be reduced to a tenth of its normal area, preventing it from absorbing what few nutrients a limited food supply may provide. Without sufficient fibre to provide an undigested bulk for the tract's muscles to push against, the muscles become weak from lack of exercise. Malnutrition that impairs digestion is self-perpetuating because impaired digestion makes malnutrition worse. In fact, the digestive system's needs are few, but important.

PTS: 1 REF: Page 95

8. Explain how hiccups develop.

# ANS:

Hiccups are spasms of both the vocal cords and the diaphragm, causing periodic, audible, short, inhaled coughs. They can be caused by irritation of the diaphragm, indigestion, or other causes. Eating or drinking too fast can cause hiccups. Hiccups usually resolve in a few minutes, but can have serious effects if prolonged.

PTS: 1 REF: Page 95

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Chapter 3 The Remarkable Body

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9. What is chronic constipation and how does it impact an individual's long-term health?

## ANS:

Constipation, infrequent and difficult bowel movements, is considered chronic when an individual experiences less than three bowel movements each week. Chronic constipation is associated with a more-than-doubled risk of colon cancer.

PTS: 1

REF: Page 96

10. Explain the effects of antacids in managing heartburn.

### ANS:

Antacids are designed to only temporarily relieve pain caused by heartburn. Antacids neutralize stomach acid for a while. As a result of reducing stomach acidity, the stomach responds by producing more acid in an attempt to restore the normal acid conditions.

PTS: 1

REF: Page 96

11. Explain why sources of carbohydrate should be consumed at intervals throughout the day.

## ANS:

Some nutrients are stored in the body in much larger quantities than others. For example, certain vitamins are stored without limit, even if they reach toxic levels within the body. Other nutrients are stored in only small amounts, regardless of the amount taken in, and these can readily be depleted. You needn't eat fat at every meal because fat is stored abundantly. However, you normally do need to have a source of carbohydrate at intervals throughout the day because the liver stores less than one day's supply of glycogen.

PTS: 1

REF: Page 99

12. Who should not drink alcoholic beverages at all?

## ANS:

Children/adolescents; anyone with an empty stomach; people who cannot restrict their drinking to moderate levels; women who are or may become pregnant or who are breast-feeding; people who plan to drive, operate machinery, or take part in other activities that require attention, skill, or coordination to remain safe; people taking medications that can interact with alcohol; people with certain medical conditions; and no one should drink when they are alone.

PTS: 1

REF: Page 103

13. What advice would you give to someone interested in improving appetite with alcohol?

# ANS:

Alcoholic beverages affect the appetite. Usually they reduce it, making people unaware that they are hungry. But in people who are tense and unable to eat, or in the elderly who have lost interest in food, a small dose of wine taken 20 minutes before meals may improve appetite. For undernourished people and for people with severely depressed appetites, wine may facilitate eating even when psychotherapy fails to do so. However, alcohol is still a toxin, and should be used in moderation.

PTS: 1

REF: Page 109

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