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Chapter **1/1e4hbookretio-htmthn-Body**-in-health-and-disease-7e-thibodeau

Patton: The Human Body in Health & Disease, 7th Edition

MULTIPLE CHOICE

1.	a. Disb. Phc. Par	word is derivents section ysiology thology natomy	ed from	the Greek wor	d meani	ng "cutting up'	"?	
	ANS: REF:	D P. 3		1 Introduction	DIF:	Memorization	1	
2.	a. Disb. Phc. Par	word is definences section ysiology thology natomy	ed as the	e study of the fi	unction	of living organ	isms and	their parts?
	ANS: REF:	B p. 3		1 Introduction	DIF:	Memorization	1	
3.	a. Disb. Phc. Par	word is define ssection ysiology thology aatomy	ed as the	e scientific stud	ly of dis	sease?		
	ANS: REF:	C P. 3	PTS: TOP:	1 Introduction	DIF:	Memorization	1	
4.	b. are	e more complex the first level the smallest li th B and C.	of organ	nization in the	•	action in the bo	dy.	
	ANS: TOP:	C Structural lev	PTS: els of o		DIF:	Application	REF: p	o. 6
5.	a. mo b. org c. tiss	olecule. gan.	act toge	ther to perform	a func	tion is called a((n)	
	ANS: REF:		PTS: TOP:	1 Structural lev	DIF: els of o	Memorization rganization	1	

6.	The heart is an example of a(n) a. organ. b. tissue. c. organism. d. system.							
	ANS: A PTS: 1 DIF: Application REF: p. 6 TOP: Structural levels of organization							
7.	The levels of organization from most simple to most complex are a. cell → chemical → organ → tissue → system. b. tissue → cell → chemical → organ → system. c. chemical → tissue → cell → organ → system. d. chemical → cell → tissue → organ → system.							
	ANS: D PTS: 1 DIF: Memorization REF: p. 5 TOP: Structural levels of organization							
8.	When using directional terms to describe the body, it is assumed that the body is in what position? a. Supine b. Anatomical c. Lateral d. Prone							
	ANS: B PTS: 1 DIF: Memorization REF: p. 7 TOP: Anatomical position							
9.	The supine position a. describes the body lying face up. b. is also called anatomical position. c. describes the body lying face down. d. both A and B.							
	ANS: A PTS: 1 DIF: Memorization REF: p. 7 TOP: Anatomical position							
10.	The prone position a. describes the body lying face up. b. is also called the anatomical position. c. describes the body lying face down. d. both B and C.							
	ANS: C PTS: 1 DIF: Memorization REF: p. 7 TOP: Anatomical position							
11.	Because humans walk upright, the term <i>dorsal</i> can be used in place of the term a. inferior.							

- b. posterior.
- c. anterior.
- d. distal.

				1 Anatomical di		Memorization	1	
12.	a. supeb. antec. vent	erior. erior.	posteri	or in humans i	s			
		D Anatomical di		1	DIF:	Application	REF:	p. 7
13.	The opp a. deep b. infe c. post d. med	rior. terior.	superfi	<i>cial</i> is				
				1 Anatomical di		Memorization	ı	
14.	The bood a. from b. sagi c. coro d. tran	ntal ittal onal	divides	the right ear fi	rom the	left ear is a	sec	tion.
	ANS: TOP:	B Planes or body		1 ns	DIF:	Application	REF:	p. 9
15.	The boo a. from b. sagi c. mid d. tran	ntal ittal sagittal	divides	the nose from	the bac	k of the head i	s a	section.
	ANS: TOP:	A Planes or body	PTS: section		DIF:	Application	REF:	p. 9
16.	A sectional from b. coronal c. mid d. tran	ntal onal sagittal	the bod	ly into mirror i	mages i	s a sect	ion.	
	ANS: TOP:	C Planes or body	PTS: section		DIF:	Application	REF:	p. 9
17.	a. thor	o major body c racic and abdor racic and pelvio	minal.	are called				

	c. dorsal and ventral.d. mediastinum and pleural.	
	ANS: C PTS: 1 DIF: Memorization REF: p. 9 TOP: Body cavities	on
18.	The liver can be found in the a. upper right quadrant. b. epigastric region. c. hypogastric region. d. both A and B.	
	ANS: D PTS: 1 DIF: Application TOP: Body cavities	REF: p. 10
19.	The word "leg" correctly describes the a. area from the hip to the foot. b. area from the knee to the ankle. c. area between the hip and the knee. d. femoral area.	
	ANS: B PTS: 1 DIF: Memorization REF: p. 13 TOP: Body regions	on
20.	The human body tries to maintain a constant body temperature.a. homeostasis.b. a positive feedback loop.c. an effector.d. a sensor.	This is an example of
	ANS: A PTS: 1 DIF: Application TOP: The balance of body functions	REF: p. 14
21.	The part of a feedback loop that has the direct effect on the regula. homeostasis. b. the effector. c. the sensor. d. the control center.	ated condition is called
	ANS: B PTS: 1 DIF: Memorization REF: p. 14 TOP: The balance of body functions	on
22.	The part of the feedback loop that detects a change in the regular a. homeostasis. b. the effector. c. the sensor. d. the control center.	red condition is called
	ANS: C PTS: 1 DIF: Memorization REF: p. 14 TOP: The balance of body functions	on

23.	region a. ho b. the c. the	art of the feedb to its homeost meostasis. e effector. e sensor. e control center	atic con			esent condition	within	a body part or
	ANS: REF:	D p. 14		1 The balance of		Memorization functions	l	
24.	makin a. ser b. eff c. co	g you shiver ar nsor.				your muscles be your muscles		contract rapidly ng as the
	ANS: TOP:	B The balance of	PTS: of body		DIF:	Synthesis	REF:	p. 14
25.	a. Mab. Fo	n of the following a pharming a blood erine contraction of B and C	of 7.45 clot	in the body	n examp	ple of a positive	e feedba	ick loop?
	ANS: TOP:	D The balance of	PTS: of body		DIF:	Application	REF:	pp. 15-16
26.	a. system of the control of the cont	stem llular	tion tha	t precedes the	organ le	evel is the	_ level.	
	ANS: REF:		PTS: TOP:	1 Structural lev	DIF:		l	
27.	a. Dob. Poc. Su	orsal esterior	cannot	be applied to a	a body i	n the anatomica	al positi	on?
	ANS: REF:		PTS: TOP:	1 Anatomical p	DIF: osition	Memorization	l	
28.	a. Ar b. Su	n term means <i>to</i> nterior perior perficial	oward th	e head?				

	ANS: REF:			1 Anatomical d		Memorization	
29.	a. Thb. Thc. Th	describes the a e elbow is prove e elbow is dista e elbow is supe e elbow is later	kimal to al to the erficial t	the wrist. wrist. to the wrist.	o of the	wrist to the elbo	w?
	ANS: TOP:	A Anatomical d			DIF:	Application I	REF: p. ′
30.	a. sag b. mi	dsagittal nsverse	ction is	another term f	or a	plane.	
				1 Planes or bod		Memorization ns	
31.	a. rigb. thoc. abo	uscular sheet cht and left pleudracic cavity and dominal and perore cavity and perore ic cavity and in the c	iral cavi id abdoi elvic cav	ties. ninopelvic cav vities.		e	
		B p. 9		1 Body cavities		Memorization	
32.	a. Rigb. Epc. Hy	is not a part of ght hypochond igastric region pogastric region I of the above a	riac reg	ion			
	ANS: REF:		PTS: TOP:	1 Body cavities		Memorization	
MATC	HING						
	a. Ch	each term with emical level	i its cor	responding def	înition (or description.	

d. Ventral

c. Tissue level

d. Organ levele. System levelf. Organism

- 1. The smallest "living" part of the body
- 2. A word used to denote a living thing
- 3. Level that includes atoms and molecules
- 4. Level made up of groups of tissues working together to perform a task
- 5. Level that is the most complex unit within the organism
- 6. Level that is made up of a group of cells working together to perform a task
- DIF: Memorization 1. ANS: B PTS: TOP: Structural levels of organization REF: p. 6 2. ANS: F PTS: DIF: Memorization REF: p. 5 TOP: Structural levels of organization 3. ANS: A PTS: DIF: Memorization TOP: Structural levels of organization REF: p. 5 4. ANS: D PTS: DIF: Memorization Structural levels of organization REF: p. 6 TOP:
- REF: p. 6 TOP: Structural levels of organization

 5. ANS: E PTS: 1 DIF: Memorization
- REF: p. 6 TOP: Structural levels of organization
- 6. ANS: C PTS: 1 DIF: Memorization

REF: p. 6 TOP: Structural levels of organization

Match each term with its corresponding definition or description.

- a. Superior
- b. Anterior
- c. Medial
- d. Proximal
- e. Superficial
- f. Inferior
- g. Posterior
- h. Lateral
- i. Distal
- j. Deep
- 7. Nearer to the surface of the body
- 8. Toward the head or above
- 9. Toward the midline of the body
- 10. Away from the trunk or point of origin
- 11. Toward the feet or below
- 12. Toward the back
- 13. Farther away from the surface of the body
- 14. Toward the side
- 15. Toward the front
- 16. Nearest to the trunk or point of origin
- 7. ANS: E PTS: 1 DIF: Memorization REF: p. 7
 8. ANS: A PTS: 1 DIF: Memorization DIF: Memorization PTS: 1 DIF: Memorization REF: p. 7
 7. ANS: E PTS: 1 DIF: Memorization DIF: Memorizati
- 9. ANS: C PTS: 1 DIF: Memorization

	REF:	p. 7	TOP:	Anatomical direction	
10.	ANS:	Ī	PTS:	DIF:	Memorization
	REF:	p. 7	TOP:	Anatomical direction	
11.	ANS:	F	PTS:	DIF:	Memorization
	REF:	p. 7	TOP:	Anatomical direction	
12.	ANS:	G	PTS:	DIF:	Memorization
	REF:	p. 7	TOP:	Anatomical direction	
13.	ANS:	J	PTS:	DIF:	Memorization
	REF:	p. 7	TOP:	Anatomical direction	
14.	ANS:	Н	PTS:	1 DIF:	Memorization
	REF:	p. 7	TOP:	Anatomical direction	
15.	ANS:	В	PTS:	1 DIF:	Memorization
	REF:	p. 7	TOP:	Anatomical direction	
16.	ANS:	D	PTS:	1 DIF:	Memorization
	REF:	p. 7	TOP:	Anatomical direction	

Match each term with its corresponding definition or description.

- a. Frontal plane
- b. Transverse plane
- c. Sagittal plane
- d. Diaphragm
- e. Thoracic cavity
- f. Abdominopelvic cavity
- g. Cranial cavity
- h. Mediastinum
- 17. A muscular sheet dividing the thoracic and abdominopelvic cavities
- 18. The lower part of the ventral body cavity
- 19. Divides the body into right and left sides
- 20. Part of the dorsal cavity that contains the brain
- 21. Divides the body into upper and lower parts
- 22. A subdivision of the thoracic cavity
- 23. Divides the body into front and rear parts
- 24. Cavity that is subdivided into pleural cavities

17.	ANS:	D	PTS:	1	DIF:	Memorization
	REF:	p. 9	TOP:	Body cavities		
18.	ANS:	F	PTS:	1	DIF:	Memorization
	REF:	p. 9	TOP:	Body cavities		
19.	ANS:	C	PTS:	1	DIF:	Memorization
	REF:	p. 9	TOP:	Planes or body	y sectio	ns
20.	ANS:	G	PTS:	1	DIF:	Memorization
	REF:	p. 9	TOP:	Body cavities		
21.	ANS:	В	PTS:	1	DIF:	Memorization
	REF:	p. 9	TOP:	Planes or bod	y section	ns
22.	ANS:	Н	PTS:	1	DIF:	Memorization
	REF:	p. 9	TOP:	Body cavities		
23.	ANS:	A	PTS:	1	DIF:	Memorization

24.	REF: ANS: REF:	E	PTS:	Planes or body secti 1 DIF: Body cavities		1					
SHOR	T ANS	WER									
1.	Explai	Explain the difference between anatomy and physiology.									
	ANS: Answe	ers will vary.									
		1 Introduction	DIF:	Memorization		REF:	P. 3				
2.	Name each.	and explain the	e structi	ural levels of organiza	ation of the body	and gi	ve an example of				
	ANS: Answe	ers will vary.									
	PTS: TOP:	1 Structural lev		Application REF: rganization	pp. 5-6						
3.	Descri	ibe the anatomi	ical posi	ition.							
	ANS: Answe	ers will vary.									
		1 Anatomical p	DIF: osition	Memorization		REF:	p. 7				
4.	Define	e or explain the	words	"prone" and "supine."	,,						
	ANS: Answe	ers will vary.									
	PTS: TOP:	1 Anatomical p	DIF: osition	Memorization		REF:	p. 7				
5.	Name	and describe th	ne three	planes or body section	ons.						
	ANS:	ers will vary.									
	PTS: TOP:	1 Planes or bod	DIF: y section	Memorization ons		REF:	p. 9				
6.	Name	the two major	body ca	avities, and describe w	what is in each						

	ANS: Answe	ers will vary.						
	PTS: TOP:	1 Body cavities	DIF:	Memorization	ı		REF:	p. 9
7.	Explai	n the three part	s of a n	egative feedba	ck loop.			
	ANS: Answe	ers will vary.						
	PTS: TOP:	1 The balance of	DIF: f body :	Memorization functions	l		REF:	p. 15
8.	What i	•	egative	feedback loop?	? Give a	n example of a	negativ	ve feedback loop in
	ANS: Answe	ers will vary.						
	PTS: TOP:	1 The balance of	DIF: f body :	Application functions	REF:	p. 15		
9.	What i	• •	ositive 1	feedback loop?	Give a	n example of a	positiv	e feedback loop in
	ANS: Answe	ers will vary.						
	PTS: TOP:	1 The balance of	DIF: f body :	Application functions	REF:	pp. 15-16		
10.	List the anatomical directions, and explain each of them. If there are alternate terms for an anatomical direction, give those terms also.							
	ANS: Answe	ers will vary.						
	PTS: TOP:	1 Anatomical di	DIF: rection	Memorization	ı		REF:	p. 7
TRUE/	FALSE	2						
1.	Anator	my is defined as	s the stu	udy of the struc	cture of	an organism.		
	ANS: REF:			1 Introduction	DIF:	Memorization		

2.	2. The word "dissection" comes from Greek word meaning "cutting up."									
	ANS: REF:	F P. 3	PTS: TOP:	1 Introduction	DIF:	Memorization				
3.	Anator	•	the stud	y of structure,	whereas	s physiology deals with the study of				
	ANS: REF:	T P. 3	PTS: TOP:	1 Introduction	DIF:	Memorization				
4.	Pathol	ogy is the scien	ntific st	udy of disease.						
	ANS: REF:	T P. 3	PTS: TOP:	1 Introduction	DIF:	Memorization				
5.	A prot	ein molecule is	s consid	ered to be at th	e cellul	ar level of organization.				
	ANS: TOP:	F Structural lev	PTS:		DIF:	Analysis REF: pp. 5-6				
6.	The ce	ell is the simple	est level	of organization	n in the	human body.				
	ANS: REF:		PTS: TOP:	1 Structural lev	DIF: els of o	Memorization organization				
7.	Cells a	are considered	to be the	e smallest livin	g unit c	of structure and function in the body.				
	ANS: REF:		PTS: TOP:	1 Structural lev	DIF: els of o	Memorization organization				
8.	A grou	p of cells worl	king tog	gether to perfor	m a spe	ecific function is called an organ.				
	ANS: REF:	F p. 6	PTS: TOP:	1 Structural lev	DIF: els of o	Memorization organization				
9.	A grou	-	fferent	tissues workinş	g togeth	ner to perform a specific function is called				
	ANS: REF:	T p. 6	PTS: TOP:	1 Structural lev	DIF: els of o	Memorization organization				
10.	The or	gan is the high	est leve	el of organization	on in the	e human body.				
	ANS: REF:		PTS: TOP:	1 Structural lev	DIF: els of o	Memorization organization				
11.	Anato	mical position	is the re	eference position	on for th	ne directional terms of the body.				

	ANS: TOP:	T Anatomical po	PTS: osition	1	DIF:	Application	REF:	p. 7	
12.	If you	like to sleep on	ı your st	tomach, you pr	efer sle	eping in the su	pine pos	sition.	
		F Anatomical po		1	DIF:	Application	REF:	p. 7	
13.		rs recommend pms. This is the			on their	backs to help	prevent	breathing	
	ANS: TOP:	T Anatomical po		1	DIF:	Application	REF:	p. 7	
14.	The anatomical position can be described as the body being erect with the arms held at shoulder level with the palms of the hands facing down.								
		F p. 7		1 Anatomical po		Memorization	l		
15.	The an	kle is distal to	the knee	e.					
	ANS: TOP:	T Anatomical di	PTS:	1	DIF:	Application	REF:	p. 7	
16.	. Dorsal and anterior are interchangeable terms when referring to humans.								
		F p. 7		1 Anatomical d		Memorization	l		
17.	The lu	ngs are medial	to the h	eart.					
		F Anatomical di			DIF:	Application	REF:	p. 7	
18.	The ell	bow is proxima	ıl to the	wrist.					
	ANS: TOP:	T Anatomical di	PTS:	1	DIF:	Application	REF:	p. 7	
19.	The sk	in is superficia	l to the	muscles.					
	ANS: TOP:	T Anatomical di	PTS:		DIF:	Application	REF:	p. 7	
20.	Proxin	nal and medial	are opp	osite terms.					
		F p. 7	PTS: TOP:	1 Anatomical d		Memorization	l		

21.	The kr	nee is distal to the ankle.						
		F Anatomical di	PTS:		DIF:	Application	REF:	p. 7
22.	The m	iddle toe is med	dial to the	he big toe but l	ateral to	the smallest to	oe.	
		F Anatomical di			DIF:	Application	REF:	p. 7
23.	Fronta	al and coronal sections refer to the same thing.						
		T p. 9		1 Planes or bod		Memorization ns	1	
24.	Sagitta	al and midsagit	tal section	ons refer to the	same t	hing.		
		F p. 9		1 Planes or bod		Memorization ns	1	
25.	A plan	e dividing a bo	dy into	upper and low	er porti	ons is a transve	rse plar	ne.
		T p. 9	PTS: TOP:			Memorization ns	1	
26.	A plan	e dividing the l	oody int	to front and ba	ck porti	ons is a sagittal	l plane.	
		F p. 9	PTS: TOP:			Memorization ns	1	
27.	A mid	sagittal plane divides the right shoulder from the left shoulder.						
		T Planes or body			DIF:	Application	REF:	p. 9
28.	A trans	sverse plane div	vides th	e eyes from the	e back o	of the head.		
	ANS: TOP:	F Planes or body	PTS: y section		DIF:	Application	REF:	p. 9
29.	A fron	tal section divi	des the	eyes from the l	oack of	the head.		
	ANS: TOP:	T Planes or body	PTS: y section		DIF:	Application	REF:	p. 9
30.	The ve	entral cavity is	one of the	he main cavitie	es of the	body.		
	ANS:	T	PTS:	1	DIF:	Memorization	1	

	REF:	p. 9	TOP:	Body cavities					
31.	The m	ediastinum is a	subdivi	ision of the abo	lominal	cavity.			
	ANS: REF:		PTS: TOP:	1 Body cavities	DIF:	Memorization			
32.	The pl	eural cavities a	re subdi	ivisions of the	thoracic	cavity.			
	ANS: REF:	T p. 9		1 Body cavities	DIF:	Memorization			
33.	The ab	dominal cavity	is infer	rior to the thora	icic cavi	ity.			
	ANS: TOP:	T Body cavities	PTS:	1	DIF:	Application	REF:	p. 9	
34.	The ab	dominal cavity	and the	e pelvic cavity	are sepa	rated by a mus	scle call	ed the diaphragr	n
	ANS: REF:	F p. 9	PTS: TOP:	1 Body cavities	DIF:	Memorization			
35.	The the	oracic cavity ar agm.	nd the a	bdominal cavit	y are se	parated by a m	uscle ca	alled the	
	ANS: REF:	T p. 9	PTS: TOP:	1 Body cavities	DIF:	Memorization			
36.	The rig	ght hypochondr	riac regi	on is complete	ly in the	e right upper qu	ıadrant	of the abdomen.	
	ANS: TOP:	T Body cavities	PTS:	1	DIF:	Application	REF:	p. 10	
37.	The le	ft hypochondria	ac regio	n is completely	in the	left lower quad	rant of	the abdomen.	
	ANS: TOP:	F Body cavities	PTS:	1	DIF:	Application	REF:	p. 10	
38.	The rig	ght lumbar regi	on is su	perior to the rig	ght iliac	region.			
	ANS: TOP:	T Body cavities	PTS:	1	DIF:	Application	REF:	p. 10	
39.	The do	orsal cavity incl	udes the	e spinal cavity.					
	ANS: REF:		PTS: TOP:	1 Body cavities	DIF:	Memorization			
40.	The br	ain is located in	n the do	rsal cavity.					

	ANS: T REF: p. 10	PTS: TOP:	1 DIF: Memorization Body cavities		
41.	Homeostasis is the	relative c	consistency of the internal environment of the body.		
	ANS: T REF: p. 14	PTS: TOP:	1 DIF: Memorization The balance of body functions		
42.	One method the boo	dy has of	maintaining homeostasis is a positive feedback loop.		
	ANS: F REF: p. 14	PTS: TOP:	1 DIF: Memorization The balance of body functions		
43.	In a feedback loop, the part of the system that compares the actual condition to the controlled condition is called the sensor.				
	ANS: F REF: p. 14	PTS: TOP:	1 DIF: Memorization The balance of body functions		
44.	In a feedback loop, called the effector.	the part of	of the system that effects a change in the controlled condition is		
	ANS: T REF: p. 14	PTS: TOP:	1 DIF: Memorization The balance of body functions		
45.	In a feedback loop, called the sensor.	the part of	of the system that detects a change in the controlled condition is		
	ANS: T REF: p. 14	PTS: TOP:	1 DIF: Memorization The balance of body functions		
46.	A negative feedback	k loop sti	mulates and amplifies a change in the internal environment.		
	ANS: F REF: p. 15		1 DIF: Memorization The balance of body functions		
47.	A negative feedback	k loop op	poses or negates a change in the internal environment.		
	ANS: T REF: p. 15	PTS: TOP:	1 DIF: Memorization The balance of body functions		
48.	The body has more	positive	feedback loops than negative feedback loops.		
	ANS: F REF: p. 15	PTS: TOP:	1 DIF: Memorization The balance of body functions		
49	The formation of a	hlood ele	at is an example of a negative feedback loop		

