Visual Anatomy and Physiology 2nd Edition Martini Test Bank

Name		
MULTIPLE CHOICE. C	hoose the one alternative that best completes the statement or answers the questi	on.
1) Which of the fo A) large into B) urinary b C) spleen D) stomach E) kidney Answer: E Explanation:		1)
2) An anatomicalA) anterior.B) superior.C) posterior.D) inferior.E) abdomin		2)
Answer: A Explanation:	A) B) C) D) E)	
A) temperatB) sweat glaC) effectorsD) regulator	a receptor in a negative feedback loop controlling body temperature would be ure sensors on the skin that detect a stimulus. Inds that act like effectors. It that cause blood vessels to dilate. It is that send commands to an effector. Inds that increase secretion. A) B) C) D) E)	3)

4)	The muscle kno	own as the diaphragm se	parates the	from the		4)	
	• •	al sac; pericardial cavity al cavity; pleural cavity				_	
		al cavity; pelvic cavity					
		avity; abdominopelvic ca	avity				
	• •	avity; mediastinum					
	Answer: D Explanation:	۸۱					
	Explanation.	A) B)					
		C)					
		D)					
		E)					
5)	What is able to	bind to a receptor?				5)	
	A) water					_	
	B) any chem						
	C) the neare						
	E) carbon di	ical of the proper structur	е				
	Answer: D	Oxido					
	Explanation:	A)					
	•	B)					
		C)					
		D)					
		E)					
6)		atic mechanisms fail, an i			of	6) _	
	A) positive f			B) negative feedback.			
	C) illness or	disease.	D) r	nomeostasis.			
	Answer: C Explanation:	۸۱					
	ехріанаціон.	A) B)					
		C)					
		D)					
7)	A midsagittal s	ection would pass throug	nh the			7)	
',	A) kidney.	B) lung.	C) heart.	D) leg.	E) spleen.	′′ –	
	Answer: C						
	Explanation:	A)					
		B)					
		C) D)					
		E)					
		-,					

8) A cell or organ	that responds to commands of the control center in negative feedback is termed a(r	ר) 8)
A) effector.		
B) receptor.		
C) stimulus.		
D) thermore		
E) control ce	enter (integration center).	
Answer: A		
Explanation:	A)	
•	B)	
	C)	
	D)	
	E)	
	ommemorative names, were anatomical structures commonly named after	9)
	leaders of the time.	
B) the discov		
	d in dissection.	
	eaders of the time.	
ŕ	funded the research.	
Answer: B		
Explanation:	A)	
	B)	
	C)	
	D) E)	
	E)	
10) A person Ivina	face down is in the position.	10)
A) prone		
B) anterior		
C) posterior		
D) supine		
E) anatomica	al	
Answer: A		
Explanation:	A)	
Explanation	B)	
	C)	
	D)	
	E)	
	adder is found in the quadrant and the quadrant.	11)
A) left upper		
C) right upp	er; right lower D) right upper; left lower	
Answer: B		
Explanation:	A)	
	B)	
	C)	
	D)	

A) directs to B) helps to C) respond: D) directs v	ong-ter mainta s rapidl very spe	m responses to ch in homeostasis.	ch of the following ex ange. lirects very specific re	•		12)
Answer: A Explanation:	A) B) C) D) E)					
13) Which organ s A) respirate B) lymphat C) endocrin D) cardiova E) digestive Answer: A Explanation:	ory ic ne ascular	removes carbon d	ioxide from the blood	dstream?		13)
14) The chin is A) superior Answer: E Explanation:		to the nose. B) medial	C) anterior	D) posterior	E) inferior	14)
15) Which of the f A) gluteal Answer: A Explanation:	A) B) C) D) E)	ng regions corresp B) pelvic	onds to the buttocks? C) thoracic	D) cephalic	E) lumbar	15)

•	ivides the body into right and left parts?	16)
A) transvers		
B) orthogon	nal	
C) sagittal D) frontal		
E) proximal		
Answer: C		
Explanation:	A)	
Explanation.	B)	
	C)	
	D)	
	E)	
		>
	ral cavity contains the	17)
A) left lung.B) heart.		
	and right lung.	
D) right lun		
E) trachea.		
Answer: D		
Explanation:	A)	
	B)	
	C)	
	D) E)	
	<u>-</u>)	
18) Which organ s	ystem provides support, protection of soft tissue, mineral storage, and blood	18)
formation?		
A) integume		
B) endocrin		
C) muscular	r	
D) nervous E) skeletal		
Answer: E		
Explanation:	A)	
Explanation.	B)	
	C)	
	D)	
	E)	
40) TI		40)
A) reflexes.	inciple of physiology is	19)
B) nutrition		
C) stimulati		
D) homeosta		
	rure regulation.	
Answer: D		
Explanation:	A)	
	B)	
	C)	
	D)	
	E)	

20) Much of the ea	arly history in anatomy is tied to what country?	20)
A) Italy		
B) Spain C) France		
D) United S	tates	
E) England	tates	
Answer: A		
Explanation:	A)	
Explanation	В)	
	c)	
	D)	
	E)	
21) \//bot type of f	icadhaek eyaggaratas the offsets of variations from normal?	21\
A) depressi	eedback exaggerates the effects of variations from normal?	21)
B) elevating		
C) neutral		
D) positive		
E) negative		
Answer: D		
Explanation:	A)	
	B)	
	C)	
	D)	
	E)	
22) While standing	g in the anatomical position,	22)
	ers to posterior.	,
	ers to inferior.	
C) back refe		
	ers to anterior.	
	ers to superior.	
Answer: C		
Explanation:	A)	
	B) C)	
	D)	
	E)	
	g erect, the direction of caudal is	23)
A) downwa	rd.	
B) upward.		
C) mediallyD) laterally.		
	the answers is correct.	
Answer: A	the unswers is contest.	
Explanation:	A)	
	В)	
	c)	
	D)	
	E)	

24) Gas exchange is to the respiratory system as absorption of nutrients is to the system(s). A) urinary B) digestive C) cardiovascular D) lymphatic E) urinary and cardiovascular Answer: B Explanation: A) B) C) D) E)					
25) The wrist is A) lateral Answer: E Explanation:	To the elbow. B) medial A) B) C) D) E)	C) proximal	D) horizontal	E) distal	25)
A) cranial a B) pelvic ar C) lateral aı D) dorsal ar	nd thoracic. nd medial.	Il body cavity are the			26)
27) If a response i A) neutral Answer: D Explanation:	ncreases a disturbance, B) deficit A) B) C) D) E)	the system is classified C) negative	as a feedba	ck system. E) polarized	27)

A) tissue, ceB) organismC) cellular, toD) organ, orE) molecula	ollowing is arranged in correct order from the most complex to the simplest? Ilular, molecular, organ, system, organism a, system, organ, tissue, cellular, molecular tissue, molecular, system, organ, organism ganism, molecular, cellular, tissue, system r, cellular, tissue, organ, system, organism	28)
Answer: B Explanation:	A)	
	B) C)	
	D)	
	E)	
29) Which of the fo	ollowing organs is not contained within the abdominal cavity?	29)
A) pancreas		
B) ovary C) spleen		
D) stomach		
E) small into	estine	
Answer: B Explanation:	A)	
Explanation.	B)	
	C)	
	D) E)	
A) right upp B) pelvic qu	of the abdominopelvic region include all of the following except the per quadrant (RUQ). Inadrant. Inadrant (LUQ).	30)
D) left lowe	r quadrant (ECQ). r quadrant (LLQ). er quadrant (RLQ).	
Answer: B		
Explanation:	A)	
	B) C)	
	D)	
	E)	
31) Which organ s A) cardiova	ystem transports nutrients, metabolic wastes, gases, and defense cells?	31)
B) urinary		
C) respirato		
D) digestive E) muscular		
Answer: A		
Explanation:	A)	
	B)	
	C)	
	D)	

to the lungs.				32)		
B) posterior	C) medial	D) proximal	E) lateral			
A) B) C) D) E)						
 33) Which one of the following is not a characteristic of the endocrine system? A) It produces an effect that involves several organs or tissues at the same time. B) It releases chemicals that affect other organs or tissues. C) It produces a more rapid response than the nervous system. D) It is important in regulating organs and tissues. E) It produces effects that last for days or longer. Answer: C Explanation: A) 						
A) B) C) D) E)						
	C) thumb	D) foot	E) hand	34)		
A) B) C) D) E)	G) thamb.	<i>B)</i> 100t.	L) Hand.			
35) Which of the following is not considered an abdominopelvic region? A) left lumbar B) right inguinal region C) left hypochondriac D) right hypochondriac E) upper right Answer: E Explanation: A) B) C) D) E)				35)		
	B) posterior A) B) C) D) E) The following is not a charges an effect that involves a chemicals that affect othes a more rapid response retant in regulating organies effects that last for day A) B) C) D) E) The following is not considered are a charge in a chondriac ochondriac ochondriac ochondriac that a charge in a charge in a charge in a chondriac ochondriac ochondr	B) posterior C) medial A) B) C) D) E) The following is not a characteristic of the endres an effect that involves several organs or tiss is chemicals that affect other organs or tissues es a more rapid response than the nervous syrtant in regulating organs and tissues. es effects that last for days or longer. A) B) C) D) E) ame for the pollex is the B) groin. C) thumb. A) B) C) D) E) cllowing is not considered an abdominopelviar uinal region chondriac ochondriac ochondriac ht A) B) C) D) E)	A) B) C) D) E) He following is not a characteristic of the endocrine system? He san effect that involves several organs or tissues at the same times of chemicals that affect other organs or tissues. He sa more rapid response than the nervous system. Hant in regulating organs and tissues. He se effects that last for days or longer. A) B) C) D) E) The following is not considered an abdominopelvic region? A) B) C) D) E) Hollowing is not considered an abdominopelvic region? Ar Jinal region Chondriac Ochondriac Ochondriac	B) posterior C) medial D) proximal E) lateral A) B) C) D) E) The following is not a characteristic of the endocrine system? The san effect that involves several organs or tissues at the same time. The ses a more rapid response than the nervous system. The regulating organs and tissues. The ses offects that last for days or longer. A) B) C) D) E) The policy is the B) groin. C) thumb. D) foot. E) hand. A) B) C) D) E) The policy is not considered an abdominopelvic region? The policy is not considered an abdominopelvic region?		

36) To what level	of orgar	nization does a pro	otein belong?			36)
A) organ lev B) organ sy C) tissue lev D) chemical E) cellular l	stem lev vel Llevel	vel				
Answer: D Explanation:	A) B) C) D) E)					
A) excretion B) decompo C) responsi D) growth E) respiration	n osition veness	g is not a characte	ristic of life?			37)
Answer: B Explanation:	A) B) C) D) E)					
38) The common r A) neck	name fo	r the patellar region B) kneecap.	on is the C) hand.	D) breast.	E) ear.	38)
Answer: B Explanation:	A) B) C) D) E)	Б) кнессар.	c) Hand.	D) bi cast.	L) car.	
		hanges in the activ	vities of other orga	n systems is the major	function of the	39)
A) respirato B) cardiova C) lymphat D) endocrin E) digestive	ory iscular ic ie					
Answer: D Explanation:	A) B) C) D)					

40) Anatomy is to as physiology is to	40)	
A) structure; function		
B) structure; form C) function; form		
D) growth; form		
E) form; structure		
Answer: A		
Explanation: A)		
B)		
C)		
D) E)		
-)		
41) When body temperature rises, a center in the brain initiates physiological changes to decrease the	ne 41)	
body temperature. This is an example of	_	
A) diagnostic regulation.		
B) fever. C) positive feedback.		
D) negative feedback.		
E) nonhomeostatic regulation.		
Answer: D		
Explanation: A)		
B)		
C)		
D) E)		
-)		
42) The maintenance of a constant internal environment in an organism is termed	42)	
A) effector control.	_	
B) negative feedback.		
C) positive feedback. D) homeostasis.		
E) integration.		
Answer: D		
Explanation: A)		
В)		
C)		
D)		
E)		
43) The mediastinum	43)	
A) contains both the pleural and pericardial cavities.	_	
B) contains the pleural cavities.		
C) separates the pleural cavities.		
D) separates the pleural cavities, and contains the pericardial cavity.E) contains the pericardial cavity.		
Answer: D		
Explanation: A)		
В)		
C)		
D)		
E)		

44) The four major	r tissue	types include each	of the following exc	ept tissue.		44)	
A) nervous		B) connective	C) glandular	D) epithelial	E) muscular		
Answer: C							
Explanation:	A)						
	B)						
	C)						
	D)						
	E)						
				pumping blood, whi		45)	
			ınctioning. This obs	ervation supports the	view that		
·		ıles make up cells.					
	_		organism are interd	ependent.			
		ts can be life-threat	tening.				
		al properties.					
E) all organ	isms ar	e composed of cells					
Answer: B							
Explanation:	A)						
·	В)						
	C)						
	D)						
	E)						
_	-	_	edback loop that req	gulates body temperat	ure is the	46) _	
A) positive	feedbac	k center.					
B) skin.							
C) temperat		eptor.					
D) thermost	iat.						
E) brain.							
Answer: E							
Explanation:	A)						
	B)						
	C)						
	D)						
	E)						
47) The liver is pri	imaarily	located in the	au adrant			47)	
A) left lowe		located in the	quadrant.			47) _	
B) right low							
C) hepatic	V CI						
D) right upp	oer						
E) left uppe							
	71						
Answer: D	• `						
Explanation:	A)						
	B)						
	C)						
	D)						
	E)						

	g forward with hands at the sides and palms facing forward is in the	48)
position.		
A) sagittal		
B) prone		
C) anatomic	al	
D) supine E) frontal		
•		
Answer: C Explanation:	A)	
Explanation.	B)	
	C)	
	D)	
	E)	
	ystem functions in defense against infection and disease?	49)
A) digestive		
B) lymphati	С	
C) nervous D) cardiovas	scular	
E) endocrine		
Answer: B		
Explanation:	A)	
_//p/a//a//	B)	
	Ć)	
	D)	
	E)	
		>
A) chemical	allest living level of organization?	50)
B) tissue lev		
C) cellular le		
D) organ sys		
E) organ lev		
Answer: C		
Explanation:	A)	
•	B)	
	C)	
	D)	
	E)	

atomy an	nd physiology (of the body's structur	es are interrelated, it	t is often said that	51)
nes	·"				
ду					
A)					
•					
					52)
	B) arm.	C) cheek.	D) foot.	E) head.	
A)					
C)					
D)					
E)					
ng on the	bed gazing at	the ceiling. She is in	the positio	n.	53)
al					
A)					
B)					
C)					
D)					
E)					
	overing the sto	mach and most of th	e intestines is called	the	54)
um.					
A)					
B)					
C)					
D)					
E)					
	A) B) C) D) Erm for the A) B) C) D) E) al A) B) C) D) E) mbrane c um A) B) C) D) D) D) D) D)	A) B) C) D) Em for the buccal region B) arm. A) B) C) D) E) Ing on the bed gazing at al A) B) C) D) E) Indianal covering the store and al A) B) C) D) E) Indianal covering the store and al A) B) C) D) E) Indianal covering the store and al A) B) C) D)	A) B) C) D) E) erm for the buccal region is the B) arm. C) cheek. A) B) C) D) E) and on the bed gazing at the ceiling. She is in al A) B) C) D) E) mbrane covering the stomach and most of the lim A) B) C) D) E) mbrane covering the stomach and most of the lim A) B) C) D) E)	A) B) C) D) Em for the buccal region is the B) arm. C) cheek. D) foot. A) B) C) D) E) Ing on the bed gazing at the ceiling. She is in the position al A) B) C) D) E) Instruction of the intestines is called am. Instruction. Instruction of the intestines is called am. Instruction. Instruction of the intestines is called am. Instruction of the intestines is called am	A) B) C) D) Erm for the buccal region is the B) arm. C) cheek. D) foot. E) head. A) B) C) D) E) In g on the bed gazing at the ceiling. She is in the position. al A) B) C) D) E) In g on the bed gazing at the stomach and most of the intestines is called the am. In the dim.

55) Which of the following terms refers to the foot?						55)	
A) cervical							
B) pedal							
C) brachial							
D) femoral							
E) antebra	chial						
Answer: B							
Explanation:	A)						
	B)						
	C)						
	D)						
	E)						
505						- ()	
		onmentai haza	rds is a function of the	system.		56)	
A) endocri							
B) skeletal		scuiar					
C) skeletal							
D) integum E) muscula							
· ·	aı						
Answer: D	• >						
Explanation:	A)						
	B)						
	C)						
	D)						
	E)						
57) The common	term for	the carnal red	ion is the			57)	
A) wrist.	terrir roi	B) leg.	C) skull.	D) ankle.	E) chest.	<i></i>	
Answer: A		-, ·-g	-,	_,	_,		
Explanation:	A)						
Explanation.	B)						
	C)						
	D)						
	E)						
	_/						
58) The ability of	an orgai	nism to change	e behaviors, abilities, or	structures to survive	is called	58)	
A) respons		J				· —	
B) adaptak							
C) excretio	n.						
D) respirat	ion.						
E) circulat	ion.						
Answer: B							
Explanation:	A)						
•	B)						
	Ć)						
	D)						
	E)						

59) The branch of biological science that deals with the study of how living organisms perform their	59)
vital functions is called	
A) biology. B) anatomy.	
C) homeostasis.	
D) disease.	
E) physiology.	
Answer: E	
Explanation: A)	
B)	
C)	
D)	
E)	
60) Homeostatic regulation usually involves a(n) that detects a particular stimulus, and a(n)	60)
that responds to the stimulus by communicating with a(n) whose activity has a	າ <u></u>
effect on the same stimulus.	
A) effector; control center (integrating center); receptor	
B) control center (integrating center); receptor; effectorC) effector; receptor; control center (integrating center)	
D) receptor; control center (integrating center); effector	
E) receptor; effector; control center (integrating center)	
Answer: D	
Explanation: A)	
В)	
C)	
D)	
E)	
61) Terms of anatomical direction are used to describe	61)
A) a supine position.	, <u> </u>
B) one body part in relation to another.	
C) the nervous system.	
D) living matter.	
E) surgical procedures.	
Answer: B	
Explanation: A) B)	
C)	
D)	
E)	

62) The thoracic cavity contains the	62)	
A) pericardial cavity.		
B) pericardial and pleural cavities.		
C) coelom.		
D) pleural cavities. E) pelvic cavity.		
Answer: B		
Explanation: A)		
B)		
C)		
D)		
E)		
63) The tendency for physiological systems to stabilize internal conditions is called	63)	
A) biology.		
B) responsiveness.		
C) adaptability.		
D) homeostasis. E) disease.		
·		
Answer: D Explanation: A)		
Explanation: A) B)		
C)		
D)		
E)		
64) The branch of biological science that studies the external and internal structure of the body and the	e 64)	
physical relationship among body parts is called		
A) physiology.		
B) disease. C) anatomy.		
D) homeostasis.		
E) biology.		
Answer: C		
Explanation: A)		
В)		
c)		
D)		
E)		
	(5)	
65) Which of the following structures is located within the mediastinum?	65)	
A) small intestine B) spleen		
C) pericardial sac		
D) lung		
E) stomach		
Answer: C		
Explanation: A)		
В)		
C)		
D)		
E)		

66) Elimination of A) endocrin	excess water, salts, and waste products are functions of the	system.	66)
B) digestive			
C) lymphati			
D) urinary			
E) respirato	ry		
Answer: D			
Explanation:	A)		
Explanation.	В)		
	C)		
	D)		
	E)		
67) Visceral perica	rdium is located		67)
A) on the lu	ng itself.		
B) on the he			
-	nall intestine itself.		
. •	e peritoneal cavity.		
E) lining the	e pleural cavity.		
Answer: B			
Explanation:	A)		
	B)		
	C)		
	D)		
	E)		
(0)	L. L. CHE		(0)
68) is the			68)
A) Cytology			
B) Embryol C) Biology	ogy		
D) Anatomy			
E) Physiological			
Answer: C	99		
	۸۱		
Explanation:	A) B)		
	C)		
	D)		
	E)		
	2)		
69) A cut parallel	to the midsagittal plane would produce a section.		69)
A) coronal	<u> </u>		·
B) superior			
C) frontal			
D) parasagi			
E) transvers	se		
Answer: D			
Explanation:	A)		
	B)		
	C)		
	D)		
	E)		

70) If a response decreases a disturbance, the system is classified as a feedback system.						
A) deficit		B) positive	C) polarized	D) neutral	E) negative	
Answer: E						
Explanation:	A)					
	B)					
	C)					
	D)					
	E)					

ESSAY. Write your answer in the space provided or on a separate sheet of paper.

71) Name the two upper abdominal quadrants and list the organs that lie in each.

Answer: right upper quadrant (RUQ): right lobe of liver, gallbladder, right kidney, portions of stomach, large and small intestines; left upper quadrant (LUQ): left lobe of liver, stomach, pancreas, left kidney, spleen, portions of large intestine

72) What is homeostatic regulation, and what is its physiological importance?

Answer: Homeostatic regulation refers to adjustments in physiological systems that are responsible for the preservation of a constant internal environment. This provides a favorable environment for the body's cells.

73) Name two organs found in the thoracic cavity.

Answer: lungs, heart, trachea, esophagus, thymus, major blood vessels connected to the heart

74) Give an example of an abnormality or problem at one level of organization, and explain how it affects other levels of organization.

Answer: The levels of organization are dependent upon one another. Beginning with the chemical level, if the incorrect atom is put into a protein, then the protein does not function properly. Because this protein is ultimately part of a cell, or the cell's extracellular matrix, the tissue will not work correctly. It is possible that the type of tissue containing this protein is found in an organ, and possibly in many organs, therefore affecting multiple organ systems. Cystic fibrosis is a great example of a faulting protein that affects multiple organ systems.

Answer Key Testname: C1

- 1) E
- 2) A
- 3) A
- 4) D
- 5) D 6) C 7) C

- 8) A
- 9) B
- 10) A
- 11) B
- 12) A
- 13) A
- 14) E
- 15) A
- 16) C
- 17) D
- 18) E
- 19) D
- 20) A
- 21) D
- 22) C
- 23) A
- 24) B
- 25) E
- 26) E 27) D
- 28) B
- 29) B
- 30) B
- 31) A
- 32) C 33) C
- 34) C
- 35) E
- 36) D
- 37) B
- 38) B
- 39) D
- 40) A
- 41) D
- 42) D
- 43) D 44) C
- 45) B
- 46) E
- 47) D
- 48) C 49) B
- 50) C

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Answer Key Testname: C1

51) C

52) C

53) B

54) A

55) B

33) B

56) D

57) A

58) B

59) E

60) D 61) B

62) B

63) D

64) C

65) C

66) D

67) B

68) C

69) D

70) E

- 71) right upper quadrant (RUQ): right lobe of liver, gallbladder, right kidney, portions of stomach, large and small intestines; left upper quadrant (LUQ): left lobe of liver, stomach, pancreas, left kidney, spleen, portions of large intestine
- 72) Homeostatic regulation refers to adjustments in physiological systems that are responsible for the preservation of a constant internal environment. This provides a favorable environment for the body's cells.
- 73) lungs, heart, trachea, esophagus, thymus, major blood vessels connected to the heart
- 74) The levels of organization are dependent upon one another. Beginning with the chemical level, if the incorrect atom is put into a protein, then the protein does not function properly. Because this protein is ultimately part of a cell, or the cell's extracellular matrix, the tissue will not work correctly. It is possible that the type of tissue containing this protein is found in an organ, and possibly in many organs, therefore affecting multiple organ systems. Cystic fibrosis is a great example of a faulting protein that affects multiple organ systems.