Exam			
Nama			

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

	a preference for a modality	risual stimulation, such as lo known as:	oking at diagrams of	1)
A) visual.	B) kinesthetic.	C) auditory.	D) tactile.	
Answer: A				
Explanation: A	A)			
I	3)			
	C)			
	D)			
Page Ref: Topic:				
2) Sierra says she lear most likely a(n):	ns more from reading the t	extbook for class than from	listening to lecture. She is	2)
A) visual learne	ır	B) tactile learner.		
C) auditory lear		D) kinesthetic learn	ner.	
Answer: A		,		
	\mathbf{A})			
•	3)			
	$\stackrel{\frown}{\mathbb{C}}$			
	D)			
Page Ref: Topic:				
Jesse felt comfortal learning style prefe		er listening to directions fro	m his lab professor. His	3)
A) tactile learne		B) auditory learne	r.	
C) kinesthetic le	earner.	D) visual learner.		
Answer: B				
Explanation: A	A)			
I	3)			
(C)			
	O)			
Page Ref: Topic:				

4) What does the SC	23R method stand for?	4)			
A) share, qui	A) share, quiz, query, question, and read				
B) search, qu	liet, research, read, and remember				
C) sort, quer	y, read, recite, and review				
D) survey, qu	uestion, read, recite, and review				
Answer: D					
Explanation:	A)				
	B)				
	C)				
	D)				
Page Ref:					
Topic:					
5		~			
, ,	ident use the SQ3R method?	5)			
	method provides a student with a strategy for taking notes during lecture class.				
*	method provides a student with ways to improve time management skills.				
	method provides a plan for a student to improve textbook reading skills.				
	method provides a student with a strategy for improving test taking skills.				
Answer: C					
Explanation:	A)				
	B)				
	C)				
	D)				
Page Ref:					
Topic:					
6) What is a good to	voy to manage time in preparation for your anatomy and physicles y class?	6)			
	way to manage time in preparation for your anatomy and physiology class? tay up all night the night before the test to maximize what is stored in short-term	· · · · · · · · · · · · · · · · · · ·			
memory.	tay up an riight the riight before the test to maximize what is stored in short-term				
-	chedule and budget my time.				
	elay studying until the day or two before the test to best remember the material.				
	ly on the weekends when I have many hours of free time.				
Answer: B					
Explanation:	A)				
	B)				
	C)				
	D)				
Page Ref:					

-	nodality is engaged when students		7)
A) visual lea		B) kinesthetic learner	
C) tactile lea	rner	D) auditory learner	
Answer: B	A.)		
Explanation:	A)		
	B)		
	C)		
Page Ref:	D)		
Topic:			
•			
8) What is a good	strategy for class or laboratory prep	aration?	8)
•	ding before class as you may get co		
	after you have attended class or lab		
-	_	ends when you have hours to spend.	
	prepare notes before attending you		
Answer: D		·	
Explanation:	A)		
r	B)		
	Ć)		
	D)		
Page Ref:	,		
Topic:			
9) How could you	use the Learning Outcomes in this I	book to help you study?	9)
	ach Learning Outcome in your note		
	ugh the Learning Outcomes after yo	-	
	Learning Outcomes until you have		
D) Write do	vn the answers to the Learning Out	comes.	
Answer: D			
Explanation:	A)		
	B)		
	C)		
	D)		
Page Ref:			
Topic:			

10) What results wh A) movemen		lism occurs more than ca B) excretion	atabolism in an organism? C) growth	D) irritability	10)
Answer: C		,	- / g · · · ·	, .	
Explanation:	A)				
Explanation.	B)				
	C)				
	D)				
Page Ref: Topic:	D)				
11) What is the sma	ıllest level	of structural organization	on in the human body?		11)
A) tissue leve	el	B) cellular level	C) chemical level	D) organ level	
Answer: C					
Explanation:	A)				
-	B)				
	C)				
	D)				
Page Ref:					
Topic:					
A) tissue level Answer: B Explanation:	_	B) organ level	ural level of organization? C) cellular level	D) chemical level	12)
Topic:					
structural organ A) cellular le B) cellular le C) chemical	nization of evel, chem evel, tissue level, cellu	the human body? ical level, tissue level, or e level, chemical level, or ular level, tissue level, or	m simplest to most complex gan level, organ system leve gan level, organ system leve gan level, organ system leve gan system level, organ leve	el, organismal level el, organismal level el, organismal level	13)
Answer: C					
Explanation:	A)				
-	B)				
	C)				
	D)				
Page Ref: Topic:	•				

14) In laboratory, yo microscope. Thi			and shape of the femur bon	e without the aid of a	14)	
A) microscope	_		B) gross anatomy	B) gross anatomy. D) regional anatomy		
C) systemic a	-	•	D) regional anatomy.			
Answer: B	ariatorriy.		D) regional anatomy.			
	A)					
Explanation:	A)					
	B)					
	C)					
D. D.C	D)					
Page Ref: Topic:						
	ou will stud	y tissues. This area of s	tudy is known as:		15)	
A) cytology.		B) gross anatomy.	C) physiology.	D) histology.		
Answer: D						
Explanation:	A)					
•	B)					
	C)					
	D)					
Page Ref: Topic:	,					
		rts the body and protec			16)	
A) skeletal sy			B) endocrine system			
C) digestive	system		D) muscular system			
Answer: A						
Explanation:	A)					
	B)					
	C)					
	D)					
Page Ref: Topic:						
		es blood vessels and th	e heart?		17)	
A) cardiovas	=	n	B) respiratory system			
C) lymphatio	system		D) endocrine system			
Answer: A						
Explanation:	A)					
	B)					
	C)					
	D)					
Page Ref: Topic:	,					

18) Which two orga	n systems include the pand	reas as a component?	18)			
A) endocrine	and lymphatic systems	B) respiratory and cardiovascular systems	-			
C) digestive	and urinary systems	D) digestive and endocrine systems				
Answer: D						
Explanation:	A)					
<u> </u>	B)					
	C)					
	· ·					
Page Ref:	D)					
Topic:						
19) What is a major	function of the respiratory	system?	19)			
_	ritamin D and retain water	-,				
	B) return excess tissue fluid to the cardiovascular system					
	d and absorb nutrients into					
		ove carbon dioxide from the body				
	ygen to the blood and reme	ove carbon dioxide from the body				
Answer: D	A >					
Explanation:	A)					
	B)					
	C)					
	D)					
Page Ref:						
Topic:						
• 0			• 0)			
	ne a person exhibiting the a	anatomical position, the palms of the hands are assumed	20)			
to be facing:	D) c	C)				
A) to the side	e. B) forward.	C) down. D) backward.				
Answer: B						
Explanation:	A)					
	B)					
	C)					
	D)					
Page Ref:	,					
Topic:						
•		vith hands at the sides, palms facing forward, is in the:	21)			
A) anatomica	•	B) supine position.				
C) frontal po	sition.	D) sagittal position.				
Answer: A						
Explanation:	A)					
•	B)					
	C)					
	D)					
Page Ref:	-/					
Topic:						

22) A person in the	anatomical position is visualiz	zed to be:	22)
A) laying do	wn on his or her back.	B) sitting down.	
C) standing	upright.	D) laying down on the stomach.	
Answer: C			
Explanation:	A)		
r	B)		
	C)		
	D)		
Page Ref:	2)		
Topic:			
23) Which direction	nal term indicates the front side	of the hody?	23)
A) superior (B) posterior (dorsal)	
C) anterior (D) medial	
Answer: C	vointi dij	2) modul	
	A)		
Explanation:	A)		
	B)		
	C)		
Page Ref:	D)		
Topic:			
24) A directional te	rm that means the same as pos	terior is:	24)
A) anterior.	B) ventral.	C) sagittal. D) dorsal.	
Answer: D			
Explanation:	A)		
1	B)		
	C)		
	D)		
Page Ref:	,		
Topic:			
25) Body parts that	are described as medial are co	nsidered to be:	25)
= :	he midline of the body.	B) toward the head.	
	he point of origin.	D) toward the front.	
Answer: A			
Explanation:	A)		
p.:	B)		
	C)		
	D)		
Page Ref:	-,		
Topic:			

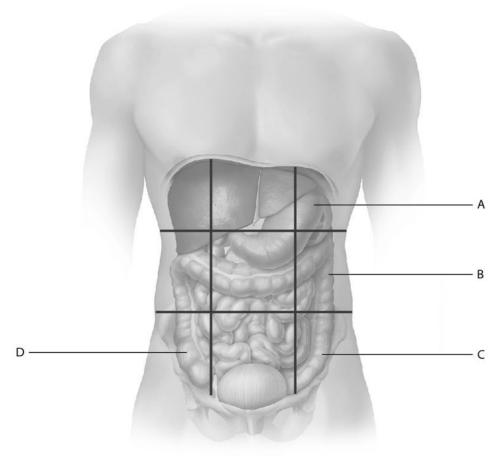
26) Select the appropriate directional term to cor	nplete this sentence: The mouth is to the	26)
nose.		
A) posterior (dorsal)	B) distal	
C) inferior (caudal)	D) superior (cranial)	
Answer: C		
Explanation: A)		
B)		
C)		
D)		
Page Ref:		
Topic:		
27) Salast the appropriate directional term to cor	mplete this sentence: The skeletal muscles are	_ 27)
to the skin.	inplete this sentence. The skeletal muscles are	
A) deep	B) posterior	
C) inferior (caudal)	D) superficial	
Answer: D	2) supernolai	
Explanation: A)		
B)		
C)		
D) Page Ref:		
Topic:		
28) In the anatomical position, the palms are on t		28)
A) posterior (dorsal) surface.	B) anterior (ventral) surface.	
C) superior (cranial) surface.	D) lateral surface.	
Answer: B		
Explanation: A)		
B)		
C)		
D)		
Page Ref:		
Topic:		
29) The point of the shoulder is also known as th	ne:	29)
A) antebrachial region.	B) brachial region.	
C) digital region.	D) acromial region.	
Answer: D		
Explanation: A)		
Lapiananon. A)		
B)		

30) James sustained	l a cut to his menta	l region, also known a	as his:		30)
A) chin.	B) ch	eek. C	(2) mouth.	D) nose.	
Answer: A					
Explanation:	A)				
	B)				
	C)				
	D)				
Page Ref: Topic:					
31) The vertebral re	gion is superior to	the:			31)
A) occipital r	egion.	В	3) sacral region.		
C) cephalic r	egion.	Γ) cervical region.		
Answer: B					
Explanation:	A)				
	B)				
	C)				
	D)				
Page Ref: Topic:					
32) The hand is also	known as the:				32)
A) pedal reg	ion.	В	3) acromial region.		-
C) manual re	egion.	Γ)) plantar region.		
Answer: C					
Explanation:	A)				
	B)				
	C)				
	D)				
Page Ref: Topic:					
		superior and inferior			33)
	al (median) plane.		3) frontal (coronal) plan		
C) sagittal pl	ane.	Г) transverse (horizonta	I, or cross) plane.	
Answer: D					
Explanation:	A)				
	B)				
	C)				
Dana D. C	D)				
Page Ref: Topic:					

34) Dr. Mitchell performs open heart surgery. The incision he makes through the sternal region of his patient divides the thoracic cavity into equal left and right parts. This incision must be made along				
a:	the thoracie cavity into equal left a	nd right parts. This incision must be made along		
A) frontal (co	oronal) plane.	B) transverse (horizontal) plane.		
	al (median) plane.	D) sagittal plane.		
Answer: C				
Explanation:	A)			
Explanation.	B)			
	C)			
	D)			
Page Ref:	D)			
Topic:				
35) What are the tw	o subcavities of the dorsal body ca	ıvity?	35)	
A) pleural ar	nd pericardial cavities	B) thoracic and abdominopelvic cavities		
C) cranial an	nd vertebral (spinal) cavities	D) abdominal and pelvic cavities		
Answer: C				
Explanation:	A)			
r	B)			
	C)			
	D)			
Page Ref:	2,			
Topic:				
36) What major org	ans are housed in the thoracic cavi	ty?	36)	
m A) brain and	spinal cord	B) stomach, intestines, liver, pancreas		
C) urinary b	ladder, reproductive organs	D) lungs, heart, esophagus, trachea		
Answer: D				
Explanation:	A)			
	B)			
	C)			
	D)			
Page Ref: Topic:				
•				
37) What separates	the thoracic cavity from the abdon	ninopelvic cavity?	37)	
A) diaphrag	m B) pericardium	C) pleura D) mediastinum		
Answer: A				
Explanation:	A)			
1	B)			
	C)			
	D)			
Page Ref:	,			
Topic:				

		ominopelvic cavity and separated by the	38)			
	diaphragm. Therefore, the diaphragm creates a:					
A) parasagit						
	e (horizontal) plane, or cross section	on.				
•	oronal) plane.					
D) midsagitt	al (median) plane.					
Answer: B						
Explanation:	A)					
	B)					
	C)					
	D)					
Page Ref: Topic:						
20) \\			20)			
and trachea?	ivity within the thoracic cavity not	uses the heart, great blood vessels, esophagus,	39)			
A) abdomina	al cavity	B) peritoneal cavity				
C) mediastir		D) diaphragm				
Answer: C		, I 3				
Explanation:	A)					
Explanation.	B)					
	C)					
	D)					
Page Ref:	2)					
Topic:						
40) Which regions of	of the abdominopelvic cavity are s	ituated medially?	40)			
A) right and	left hypochondriac regions, and the	ne epigastric region				
$\mathrm{B})$ right and	left lumbar regions and the umbil	ical region				
C) epigastrio	, umbilical, hypogastric regions					
D) right hyp	ochondriac, right lumbar, and righ	nt iliac (inguinal) regions				
Answer: C						
Explanation:	A)					
	B)					
	C)					
	D)					
Page Ref: Topic:						

42)



A) A B) B C) C D) D

Answer: C

Explanation: A)

B)

C)

D)

Page Ref: Topic:

42) Which region of the abdominopelvic cavity lies between the right and left lumbar regions?

 $B) \ \text{epigastric region} \\$

C) umbilical region

A) hypogastric region

 $D) \ right \ lumbar \ region$

Answer: C

Explanation: A)

B)

C)

D)

43) Serous membra	nes line certain cavities within the:		43)
A) ventral ca	vities.	B) dorsal cavities.	
C) cranial ca	vity.	D) vertebral (spinal) cavity.	
Answer: A			
Explanation:	A)		
•	B)		
	Ć)		
	D)		
Page Ref:	2)		
Topic:			
44) What is deep to	the visceral pericardium?		44)
A) pericardia	·-	B) visceral peritoneum	
C) parietal p	_	D) heart muscle	
•	ericardium	D) heart muscle	
Answer: D			
Explanation:	A)		
	B)		
	C)		
	D)		
Page Ref: Topic:	,		
A) visceral p B) parietal p C) parietal p	needle travel through as it enters the ericardium, serous fluid, parietal per leura, serous fluid, right lung, viscer leura, serous fluid, visceral pleura, ri leura, serous fluid, parietal pleura, r	ricardium, right lung al pleura ight lung	45)
Answer: C			
Explanation:	A)		
r	B)		
	C)		
	D)		
Page Ref:	D)		
Topic:			
46) What organ(s) is	s/are covered by the pleura?		46)
A) digestive		B) lungs	, <u> </u>
C) brain and	_	D) heart	
Answer: B	- Fr. 13. 33. 3	,	
	Λ)		
Explanation:	A)		
	B)		
	C)		
n nc	D)		
Page Ref: Topic:			

47) The maintenance of a relatively constant internal environment is termed:					
A) effector control.C) integration.		B) homeostasis.			
		D) positive feedba			
Answer: B					
Explanation:	A)				
	B)				
	C)				
	D)				
Page Ref: Topic:					
48) What part of a f		oop causes physiologi	cal responses to return the	e variable to the normal	48)
A) receptor (J		B) stimulus		
C) control ce			D) effector		
Answer: D					
Explanation:	A)				
•	B)				
	C)				
	D)				
Page Ref: Topic:					
49) A cell or organ termed a(n):	that respo	onds to the directions c	of the control center in a ne	egative feedback loop is	49)
A) regulator.	•	B) stimulus.	C) receptor.	D) effector.	
Answer: D					
Explanation:	A)				
•	B)				
	C)				
	D)				
Page Ref:	•				

50) When you go outside on a hot summer day, your body temperature heats up above the normal range. Receptors in your brain detect the change in body temperature. The brain activates nerve cells that send messages to sweat glands, causing the body temperature to fall as the sweat						
<u>-</u>	evaporates from the skin. What part of this feedback loop is the stimulus? A) nerve cells B) sweat glands					
,		D) brain				
	body temperature	D) brain				
Answer: C						
Explanation:	A)					
	B)					
	C)					
D. D.C	D)					
Page Ref: Topic:						
1						
range. Receptor cells that send n	s in your brain detect the change in same in s	body temperature heats up above the normal n body temperature. The brain activates nerve the body temperature to fall as the sweat	51)			
	n the skin. What part of this feedba					
A) sweat gla		B) increased body temperature				
C) nerve cell	S	D) brain				
Answer: A						
Explanation:	A)					
	B)					
	C)					
	D)					
Page Ref:						
Topic:						
	ffector restore homeostasis in a ne		52)			
A) The effect range.	or opposes the initial stimulus and	d shuts off when conditions return to the normal				
B) The effect	or increases and reinforces the ini	tial stimulus.				
C) The effect	or amplifies the response, but doe	s not continue indefinitely.				
D) The effect	or causes a rapid change in a varia	able.				
Answer: A						
Explanation:	A)					
	B)					
	C)					
	D)					
Page Ref: Topic:						

53) A mother breast	feeds her	infant. As long as the	e baby suckles his mother's	breast, the mother's	53)
	-	_	stimulus, increases milk pr	roduction, the response.	
This scenario is I A) a positive					
B) anatomica		-			
C) a negative	•				
, ,		mentarity of structur	e and function.		
Answer: A	•	5			
Explanation:	A)				
•	B)				
	C)				
	D)				
Page Ref: Topic:					
Topic.					
54) The type of feed	back that	increases or enhance	es the effects of the variable	is.	54)
A) responsive		B) positive.	C) neutral.	D) negative.	
Answer: B					
Explanation:	A)				
_	B)				
	C)				
	D)				
Page Ref: Topic:					
торіс.					
55) Which of the fol	lowing be	st summarizes the p	rinciple of complementarity	y of structure and	55)
function?	3	•		,	, <u> </u>
		able internal environ	ment		
B) form follo					
C) structure of					
D) function for	ollows stru	ucture			
Answer: B					
Explanation:	A)				
	B)				
	C) D)				
Page Ref:	D)				
Topic:					

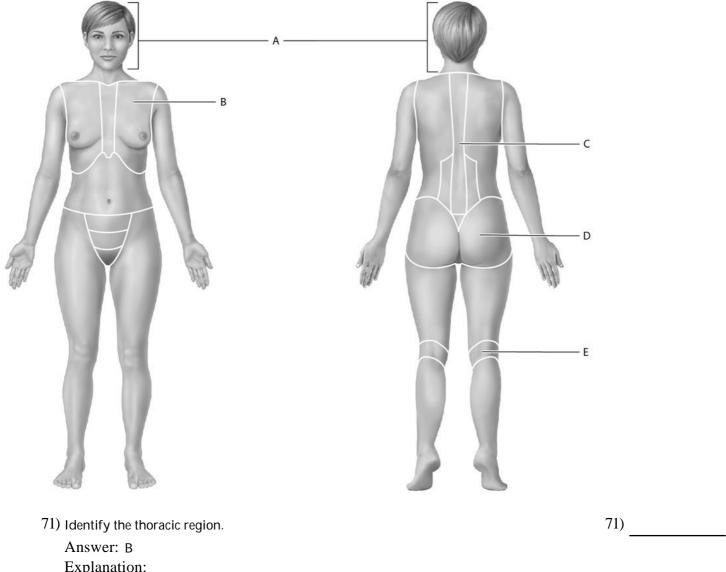
56) Which of the fol	lowing illustrates a gradient?		56)	
A) maintenance of a relatively stable internal environment				
B) more of something exists in one area than another and the two areas are connected				
C) equilibriu	m or balance between two unconnect	ed areas		
D) equal amo	ounts of something exist in areas that	are connected		
Answer: B				
Explanation:	A)			
-	B)			
	C)			
	D)			
Page Ref:				
Topic:				
		essure in capillaries. Blood flows from arteries	57)	
•	e to the presence of a:	D)		
A) pressure g		B) positive feedback loop.		
C) homeostat	tic imbalance.	D) negative feedback loop.		
Answer: A				
Explanation:	A)			
	B)			
	C)			
	D)			
Page Ref: Topic:				
торіс.				
50) \\/!			58)	
	o major methods by which cells comi ire gradients and pressure gradients	municate to coordinate their functions?	<i>36)</i>	
	edback loops and negative feedback	loons		
C) effectors a		ιουρς		
*	messengers and/or electrical signals			
	nessengers and/or electrical signals			
Answer: D	A >			
Explanation:	A)			
	B)			
	C)			
Page Ref:	D)			
i age Rei.				

example of a co	re principle known as:	er changes in a nearby muscle cell. This is	59)
A) feedback	•		
B) gradients			
	ommunication.		
D) principle	of complementarity of structure an	nd function.	
Answer: C			
Explanation:	A)		
	B)		
	C)		
	D)		
Page Ref: Topic:	,		
	ne of the four core principles relate		60)
A) gradients		B) feedback loops	
C) metabolis	sm	D) cell-cell communication	
Answer: C			
Explanation:	A)		
•	B)		
	C)		
	D)		
Page Ref: Topic:	-,		
ΓRUE/FALSE. Write	e 'T' if the statement is true an	nd 'F' if the statement is false.	
61) When studying	, you should actively read the textb	book by taking notes and making diagrams.	61)
Answer: O Tr	rue False		
Explanation: Page Ref: Topic:			
62) You should wai laboratory.	it to read the textbook until you ha	ve heard the material presented in lecture or	62)
•	rue O False		
Explanation: Page Ref: Topic:	ide of alse		
	vel of organization in the human bo	ndy is the cellular level	63)
		Jay 13 the centular level.	
	rue • False		
Explanation: Page Ref:			
Topic:			

64)	The endocrine sys	tem is responsible for generating heat.	64)	
	Answer: True Explanation: Page Ref: Topic:	False		
65)	Patients are alway	rs examined while they are standing in the anatomical position.	65)	
	Answer: True Explanation: Page Ref: Topic:	e • False		
66)	The crural region	is posterior (dorsal) to the sural region.	66)	
	Answer: True Explanation: Page Ref: Topic:	e • False		
67)	The transverse (ho posterior parts.	orizontal plane or cross section) plane divides the body into anterior and	67)	
	Answer: True Explanation: Page Ref: Topic:	e • False		
68)	Serous fluid lubric structures.	cates around organs and reduces friction as the organ moves against adjacent	68)	
	Answer: True Explanation: Page Ref: Topic:	e False		
69)	•	c loops produce responses in the opposite direction of the initial stimulus while loops produce responses in the same direction of the initial stimulus.	69)	
	Answer: True Explanation: Page Ref: Topic:			
70)	According to the prelated only at the	orinciple of complementarity of structure and function, structure and function are cellular level.	70)	
	Answer: True Explanation: Page Ref: Topic:			

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

Match the following with the correct regional anatomical term.



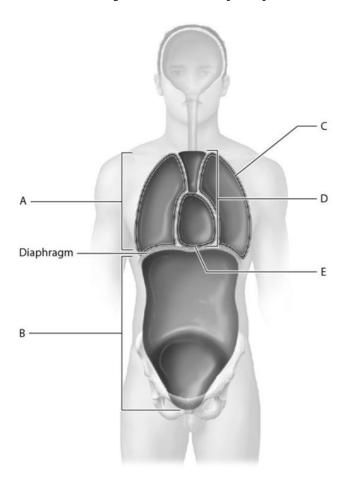
Answer: B			
Explanation:			
Page Ref:			
Topic:			

72) Identify the vertebral region. 72)

Answer: C
Explanation:

73) Identify the cephalic region.	73)
Answer: A	
Explanation:	
Page Ref:	
Topic:	
74) Identify the popliteal region.	74)
Answer: E	
Explanation:	
Page Ref:	
Topic:	
75) Identify the gluteal region.	75)
Answer: D	
Explanation:	
Page Ref:	
Topic:	

Match the following with the correct body cavity or subdivision.



Explanation:
Page Ref:
Topic:

76) Identify the thoracic cavity.	76)
Answer: A	
Explanation:	
Page Ref:	
Topic:	
	77
77) Identify the abdominopelvic cavity.	77)
Answer: B	
Explanation:	
Page Ref:	
Topic:	
78) Identify the cavity where the left lung is housed.	78)
Answer: C	· ·

79) Identify the mediastinum.	79)
Answer: D	
Explanation:	
Page Ref:	
Topic:	
80) Identify the cavity that houses the heart.	80)
Answer: E	
Explanation:	
Page Ref:	
Topic:	

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

81) Gillian prefers to study alone. She mostly draws diagrams from the textbook or makes charts and tables to organize her thoughts as she reads. Determine and discuss her learning style.

Answer: Gillian prefers a visual/nonverbal learning style. A visual/nonverbal learner usually best understands concepts through the use of diagrams, illustrations, and other visual media without text.

Visual/nonverbal learners may experience more success in studying alone than in study groups.

Page Ref: Topic:

82) Describe the SQ3R method for reading a textbook.

Answer: The SQ3R method stands for survey, questions, read, recite, and review. First, you should survey the chapter by skimming the material and figures. Next, form questions about the content in the chapter that you car answer as you read. Actively read by taking notes and drawing diagrams. As you read, recite the materia speaking aloud. The final step is to review what you have read. You may choose to answer questions in t book, write summaries, or discuss topics aloud with study partners.

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83) Define metabolism.

Answer: Metabolism includes the wide range of chemical processes carried out by living organisms. Metabolism includes both "building" processes in which smaller chemicals are combined to form larger ones, and "breaking down" processes in which larger chemicals are broken down into smaller ones.

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84) Explain how gross anatomy and microscopic anatomy differ.

Answer: The field of gross anatomy examines structures, including organs and organ systems that can be seen with the unaided eye. The field of microscopic anatomy examines structures that require a microscope to be seen.

85) Describe anatomical position.

Answer: In anatomical position, the body is standing upright, feet are shoulder width apart, upper limbs are at the sides of the trunk, and the head and palms are facing forward.

Page Ref: Topic:

86) Instead of using the directional terms superior and inferior to describe positions on the upper and lower limbs, what directional terms are used? Define these terms.

Answer: Instead of using superior and inferior for the limbs, the terms proximal and distal are used. Proximal refers to something being closer to the point of origin (the trunk) while distal refers to something being farther away from the point of origin. Structures nearer the trunk are proximal while structures farther away are distal.

Page Ref: Topic:

87) Peggy is having surgery on the right carpal region. A 3 cm incision will be made deep to the skin and muscle, but will be superficial to the bone. Explain to her where her surgery will occur.

Answer: Peggy will have surgery on the wrist, or carpal, region of her right hand. The 3 cm incision will penetrate through the skin and muscle, but will not go as deep into her wrist as the bone.

Page Ref: Topic:

88) During lab dissections, Kelly's instructor directs the students to make a midsagittal cut into their specimen. However, Kelly's lab partner thought she heard the instructor say that a cut along the median plane was to be made. Explain what type of cut should be made into the specimen.

Answer: A midsagittal plane of section is also known as a median plane of section. Both divide the body or body part into equal left and right parts. Kelly and her lab partner should make a cut so that their specimen is divided into equal left and right parts.

Page Ref: Topic:

89) A female patient presents at the emergency room with pain in the right lower quadrant. Which organs might be involved?

Answer: The appendix, the right ovary, the first part of the large intestine, or the last part of the small intestine may be the source of pain in this female patient.

Page Ref: Topic:

90) List the four quadrants and nine regions of the abdominopelvic cavity.

Answer: The four quadrants are the right upper quadrant, right lower quadrant, left upper quadrant, and left lower quadrant. The nine regions are the right hypochondriac region, epigastric region, left hypochondriac region, right lumbar region, umbilical region, left lumbar region, right liac (inguinal) region, hypogastric region, and left iliac (inguinal) region.

91) Explain where the pericardial cavity is situated in relation to the pericardial membranes.

Answer: The pericardial cavity is situated between the visceral pericardium (attached to the heart muscle) and the outer parietal pericardium.

Page Ref: Topic:

92) Define homeostasis and homeostatic imbalance.

Answer: Homeostasis is maintenance of the body's internal environment. Disturbances in homeostasis, known as homeostatic imbalances, can result in disease or death if uncorrected.

Page Ref: Topic:

93) List and describe the components of a feedback loop.

Answer: The components of a feedback loop are the stimulus, receptor (sensor), control center, and effector/response. A stimulus is a regulated variable outside its normal range. A receptor (sensor) is a cellular structure that picks up information and sends it to a control center. The control center is often cells in the brain or an endocrine organ (gland). The control center compares the current value to its set point and determines that it's out of range. The control center sends signals to effectors. Effectors are cells or organs that cause physiological responses that return the variable to the normal homeostatic range.

Page Ref: Topic:

94) Discuss the role of effector in both the negative and positive feedback loops.

Answer: In a negative feedback loop, the effector activity opposes the initial stimulus and shuts off when conditions return to the normal range. However, in a positive feedback loop, the effector's activity actually increases–positive feedback reinforces the initial stimulus using a loop of increasing output that amplifies the response. A positive feedback loop therefore causes a rapid change in a variable.

Page Ref: Topic:

95) List the four core principles that relate to homeostasis.

Answer: The four core principles that relate to homeostasis are:

- 1) feedback loops
- 2) the relationship of structure and function
- 3) gradients
- 4) cell-cell communication

Page Ref: Topic:

96) Summarize the principle of complementarity of structure and function.

Answer: The principle of complementarity can be summarized as form follows function. In other words, the form of a structure is always such that it best suits its function.

97) Discuss why anatomical position is used.

Answer: Anatomical position provides accurate communication among scientists and health care professionals since it prevents experimental and medical errors. Anatomical position also provides a common frame of reference from which all body parts and regions are described.

Page Ref: Topic:

98) Explain how the popliteal and patellar regions differ.

Answer: The popliteal region refers to the posterior (dorsal) side of the knee while the patellar region refers to the anterior (ventral) side of the knee. We may say that the popliteal region is posterior to the patellar region.

Page Ref: Topic:

99) Jose is having back surgery. Discuss the specific type of section the surgeon should use to make a cut along his vertebral region.

Answer: The vertebral region is situated along the body's midline. To operate on this region, the surgeon should make a cut along the midsagittal, or medial, plane on Jose's posterior (dorsal) body surface. The midsagittal plane divides the body into equal left and right parts.

Page Ref: Topic:

100) Pleurisy is the inflammation of the serous membranes surrounding the lungs. With pleurisy, the inflamed membranes may secrete more serous fluid than normal. Predict the effects of excess serous fluid on serous membrane function.

Answer: Serous fluid is an extremely thin, slippery, watery layer situated between the visceral and parietal pleura. This fluid is produced by the cells of the membrane to lubricate around the organs and reduce friction as the lungs move against adjacent structures. Excess fluid around the lungs puts pressure on the lungs and can impair the lubricating function of the serous membranes, making it harder for these membranes to reduce friction.

Page Ref: Topic:

101) Explain how scratching a chaffing label on a shirt is an example of a negative feedback loop.

Answer: An irritation to the skin from a chaffing shirt label is a stimulus detected by a receptor (or sensor). The receptor sends this information to a control center, the brain, where it is determined that the skin irritation is out of normal range. The control center sends signals to effectors that cause physiological responses to return the variable to normal homeostatic range. Scratching, the response, stops the chaffing by moving the label off the skin, and thus removes the stimulus.

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