E) radiographic anatomy.

8) The study of the first two months of development is termed	8)
A) embryology.	
B) organology.	
C) pathology.	
D) cytology.	
E) histology.	
,	
9) The study of the function of specific organ systems is called	9)
A) systemic physiology.	·/
B) cell physiology.	
C) histology.	
D) organ physiology.	
E) pathological physiology.	
L) patriological physiology.	
10) Cardiovascular physiology is an example of	10)
A) pathological physiology.	,
B) histophysiology.	
C) physiological chemistry.	
D) organ physiology.	
E) systemic physiology.	
Ly systemic physiology.	
11) Organ physiology is to as gross anatomy is to	11)
A) balance; equilibrium	,
B) imbalance; microscopic anatomy	
C) macroscopic anatomy; unbalance	
D) cell physiology; microscopic anatomy	
E) equilibrium; macroscopic anatomy	
Ly equilibrium, macroscopic anatomy	
12) Which of the following is arranged in correct order from the most COMPLEX to the SIMPLEST?	12)
A) cellular, tissue, molecular, system, organ, organism	
B) organism, system, organ, tissue, cellular, molecular	
C) organ, organism, molecular, cellular, tissue, system	
D) molecular, cellular, tissue, organ, system, organism	
E) tissue, cellular, molecular, organ, system, organism	
Ly tissue, centular, morecular, organ, system, organism	
13) Which organ system provides support, protection of soft tissue, mineral storage, and blood	13)
formation?	
A) muscular	
B) endocrine	
C) nervous	
D) skeletal	
E) integumentary	
L) integumental y	
14) The kidneys and ureters are organs of the system.	14)
A) urinary	· - / · · · ·
B) endocrine	
C) lymphoid	
D) digestive	
E) respiratory	
E) respiratory	

15) The pituitary gland and thyroid gland are organs of the	system.	15)
A) cardiovascular		
B) lymphoid		
C) endocrine		
D) digestive		
E) respiratory		
_,		
16) Which organ system removes carbon dioxide from the blood	stream?	16)
A) cardiovascular	Str Garri	
B) endocrine		
C) respiratory		
D) digestive		
E) lymphoid		
17) Lungs are to the respiratory system as the liver is to the	systom	17)
A) urinary	system.	
B) digestive		
C) cardiovascular		
D) lymphoid		
E) both B and D		
18) Skin, hair, and nails are associated with the system.		18)
A) skeletal		10)
·		
B) integumentary		
C) muscular		
D) endocrine		
E) both A and B		
19) Which organ system transports nutrients, metabolic wastes, or	gases, and defense cells?	19)
A) muscular	gases, and defense cens:	19)
·		
B) respiratory		
C) cardiovascular		
D) urinary		
E) digestive		
20) Which argan system includes the splean and the topcils?		20)
20) Which organ system includes the spleen and the tonsils?		20)
A) endocrine		
B) cardiovascular		
C) lymphoid		
D) nervous		
E) digestive		
21) Which of the following argans is leasted between the residence	ocum and the hadronall?	21\
21) Which of the following organs is located between the periton	eum and the body wall?	21)
A) kidney		
B) stomach		
C) urinary bladder		
D) spleen		
F) large intestine		

22) A chemical imbalance in the blood can cause the heart to stop pumping blood, which in turn will	22)
cause other tissues and organs to cease functioning. This observation supports the view that	
A) chemical molecules make up cells.	
B) congenital defects can be life-threatening.	
C) all levels of organization within an organism are interdependent.	
D) all organisms are composed of cells.	
E) blood has magical properties.	
23) The maintenance of a constant internal environment in an organism is termed	23)
A) effector control.	
B) integration.	
C) positive feedback.	
D) negative feedback.	
E) homeostasis.	
24) The central principle of physiology is	24)
A) homeostasis.	
B) stimulation.	
C) temperature regulation.	
D) reflexes.	
E) nutrition.	
25) When body temperature rises, a center in the brain initiates physiological changes to decrease the	25)
body temperature. This is an example of	
A) negative feedback.	
B) fever.	
C) diagnostic regulation.	
D) positive feedback.	
E) nonhomeostatic regulation.	
26) In general, the nervous system does each of the following, except	26)
A) helps to maintain homeostasis.	
B) responds rapidly to change.	
C) directs very specific responses.	
D) directs long-term responses to change.	
E) both B and D	
27) Which one of the following is not a characteristic of the endocrine system?	27)
A) produces a more rapid response than the nervous system	
B) produces effects that last for days or longer	
C) produces an effect that involves several organs or tissues at the same time	
D) important homeostatic system	
E) releases chemical messengers called hormones	
28) A cell or organ that responds to commands of the control center in negative feedback is termed a(n)	28)
A) receptor.	
B) stimulus.	
C) effector.	
D) thermoregulator.	
E) hypothalamus.	

29) This type of feedb	ack exaggerates the ef	fects of variations fro	om normal.		29)	
A) positive						
B) depressing						
C) negative						
D) neutral						
E) all of the abo	ove					
30) The integrating ce	nter for the negative fe	eedback loop that reg	gulates body temper	ature is the	30)	
<ul><li>A) positive feed</li></ul>						
B) hypothalam	us.					
C) thermostat.						
D) skin. E) temperature	concor					
L) temperature	301301.					
31) If a response decre	eases a disturbance, th	_	l as a feedb	oack system.	31)	
A) neutral	B) deficit	C) positive	D) negative	E) polarized		
22) If a reemand image	occo a distrumbanca the	o overtemo io eleccifical	an a fandle	a alc aviatama	22)	
A) polarized	eases a disturbance, the B) deficit	e system is classified C) positive	as a reedb D) negative	eack system. E) neutral	32)	_
A) polarized	b) deficit	c) positive	D) negative	L) ficultai		
33) An example of a r	eceptor in a negative f	eedback loop contro	lling body temperati	ure would be	33)	
•	t cause blood vessels to					
_	s that increase secretio					
	s that act like effectors					
•	sensors on the skin th					
E) regulatory co	enters that send comm	ands to an effector.				
34) A person facing fo	orward with hands at t	he sides and palms f	facing forward is in t	the	34)	
A) anatomical p		·	J		,	_
B) sagittal posi	tion.					
C) prone positi						
D) supine posit						
E) frontal posit	ion.					
35) An anatomical ter	m that means the same	e as <i>ventral</i> :			35)	
A) inferior					´ ——	_
B) anterior						
C) superior						
<ul><li>D) posterior</li></ul>						
E) abdominal						
36) The heart is	to the lungs				36)	
A) lateral	B) medial	C) proximal	D) distal	E) posterior		_
		-		-		
37) The wrist is		0) !! ! !	5) " ! !	<b>-</b> \	37)	_
A) lateral	B) horizontal	C) distal	D) medial	E) proximal		
38) The chin is	to the nose.				38)	
A) superior	B) anterior	C) posterior	D) inferior	E) medial	, <del></del>	_

39) Which of the following	ng regions correspo	nds to the buttocks?			39)
A) cephalic	B) pelvic	C) thoracic	D) lumbar	E) gluteal	
40) Which of the followin A) cervical B) antebrachial C) brachial D) pedal E) femoral	ng terms refers to th	ne foot?			40)
41) Which plane divides A) proximal B) transverse C) frontal D) sagittal E) orthogonal	the body into right	and left parts?			41)
42) The quadrants of the A) left upper quad B) left lower quad C) pelvic quadran D) right upper quad E) right lower quadran	Irant (LUQ). rant (LLQ). t. adrant (RUQ).	egion include all of th	e following except		42)
43) Which of the following A) upper B) right hypochory C) left lumbar D) left hypochond E) right inguinal r	ndriac	d an abdominopelvic	region?		43)
44) The urinary bladder A) left upper; left l B) right upper; rig C) right upper; rig D) left upper; righ E) right lower; left	lower ht lower ht lower t upper	quadrant and t	he quadr	ant.	44)
45) The liver is primarily A) hepatic B) left upper C) right lower D) left lower E) right upper	/ located in the	quadrant.			45)
<ul><li>46) While standing erect</li><li>A) upward.</li><li>B) medially.</li><li>C) laterally.</li><li>D) downward.</li><li>E) none of these.</li></ul>	, the direction of ca	udal is			46)

47) A person is lying on the bed gazing at the ceiling. She is in the	position.	47)	
A) anatomical			
B) supine			
C) prone			
D) caudal			
E) dorsal			
48) Terms of anatomical direction are used to describe		48)	
A) the nervous system.			
B) one body part in relation to another.			
C) surgical procedures.			
D) a supine position.			
E) living matter.			
, 3			
49) While standing in the anatomical position,		49)	
A) back refers to dorsal.		,	-
B) front refers to ventral.			
C) front refers to ventral.			
D) back refers to anterior.			
E) all of the above			
L) all of the above			
En) The muscle known as the diaphragm congretes the	<b>h</b> o	EO)	
50) The muscle known as the diaphragm separates the from the	ne	50)	_
A) pleural cavity; mediastinum  (a) the graphs and the demineration and the			
B) thoracic cavity; abdominopelvic cavity			
C) pericardial sac; pericardial cavity			
D) abdominal cavity; pelvic cavity			
E) pericardial cavity; pleural cavity			
51) The thoracic cavity contains the		51)	
A) pelvic cavity.			
B) pericardial cavity.			
C) coelom.			
D) pleural cavities.			
E) both B and D			
52) The serous membrane covering the stomach and most of the intestir	nes is called the	52)	
A) mediastinum.			_
B) abdomen.			
C) pericardium.			
D) peritoneum.			
E) pleura.			
53) The two major divisions of the ventral body cavity are the		53)	
A) pelvic and thoracic.			-
B) thoracic and abdominopelvic.			
C) cranial and sacral.			
D) lateral and medial.			
E) dorsal and ventral.			
_,			

54) The right pleural of	avity contains the				54)
A) both lungs.					_
B) trachea.					
C) heart.					
D) right lung.					
E) left lung.					
55) Which of the follow	wing organs is not c	ontained within the	abdominal cavity?		55)
<ul><li>A) small intestir</li></ul>	ne				_
B) pancreas					
C) ovary					
D) spleen					
E) stomach					
56) The mediastinum					56)
<ul><li>A) contains the</li></ul>	pleural cavities.				_
B) separates the	e pleural cavities.				
	pericardial cavity.				
D) both A and (					
E) both B and C					
57) Identify a structur	e located within the	mediastinum.			57)
<ul><li>A) pericardial s</li></ul>	ac				_
B) small intestir	ne				
C) stomach					
D) lung					
E) spleen					
58) Visceral pericardio					58)
<ul><li>A) lining the pe</li></ul>					
B) on the heart					
C) lining the pe	_				
D) on the lung i					
E) lining the pla	eurai cavity.				
59) A midsagittal section	•	•	5)		59)
A) kidney.	B) leg.	C) heart.	D) spleen.	E) lung.	
60) Identify the correct	• .	cribing the organ tha	nt separates the ventra	al body cavity into	60)
superior and infer					
A) mediastinum	1				
B) diaphram	m				
<ul><li>C) mediastienu</li><li>D) diaphragm</li></ul>	<b>/11</b>				
E) diafragm					
L) didiragiii					
RT ANSWER. Write th	ie word or phrase th	nat best completes e	ach statement or ansv	wers the question.	
61) The branch of biol	ogical science that s	tudies the external a	nd internal structure (	of the body 61)	
	alationshin among h			, , _	

62)	Anatomy uses a special language, called, that involves the use	62)	
	of word roots, prefixes, suffixes, and combining forms to construct terms related to the body in health and disease.		
63)	The serves as a worldwide official standard of anatomical	63)	
	vocabulary.		
64)	The branch of biological science that deals with the study of how living organisms perform their vital functions is called	64)	
	studies the changes in form that occur between conception	65)	
	and physical maturity.		
66)	The tendency for physiological systems to stabilize internal conditions is called .	66)	
67)	regulation results from the activities of the nervous or	67)	
0.,	endocrine system.	<i>σ.</i> ,	
68)	When homeostatic mechanisms fail, an individual will experience the symptoms of	68)	
(0)		(0)	
69)	Homeostatic regulation usually involves a(n) that detects a particular stimulus, and a(n) that responds to the stimulus by	69)	
	communicating with a(n) whose activity has an effect on the same stimulus.		
70)	regulation occurs when the activities of organs are regulated	70)	
	locally.		
71)	A person lying face down is in the position.	71)	
72)	A cut parallel to the midsagittal plane would produce a(n)	72)	
	section.		
73)	The common term for the buccal region is the	73)	
74)	The common term for the carpal region is the	74)	
75)	The common name for the patella is the	75)	
76)	The common name for the pollex is the	76)	

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

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

- 78) During exercise, blood flow to skeletal muscles increases. The initial response that increases blood flow is automatic and independent of the nervous and endocrine systems. Which type of homeostatic regulation is this? Why?
- 79) Name the two upper abdominal quadrants and list the organs that lie in each.
- 80) Name the organs found in the thoracic cavity.

## Answer Key

Testname: UNTITLED1

- 1) E
- 2) B
- 3) E
- 4) C
- 5) A
- 6) D 7) C
- 8) A
- 9) A
- 10) E
- 11) D
- 12) B
- 13) D
- 14) A
- 15) C
- 16) C
- 17) B
- 18) B
- 19) C
- 20) C
- 21) A
- 22) C
- 23) E
- 24) A 25) A
- 26) D
- 27) A
- 28) C
- 29) A
- 30) B
- 31) D
- 32) C
- 33) D
- 34) A
- 35) B
- 36) B
- 37) C
- 38) D
- 39) E
- 40) D
- 41) D
- 42) C
- 43) A
- 44) E
- 45) E 46) D
- 47) B
- 48) B
- 49) E
- 50) B

## **Answer Key**

Testname: UNTITLED1

- 51) E
- 52) D
- 53) B
- 54) D
- 55) C
- 56) E
- 57) A
- 58) B
- 59) C
- 60) D
- 61) anatomy
- 62) medical terminology
- 63) Terminologia Anatomica
- 64) physiology
- 65) Developmental anatomy
- 66) homeostasis
- 67) Extrinsic
- 68) disease
- 69) receptor; integrating center; effector
- 70) Intrinsic
- 71) prone
- 72) parasagittal
- 73) cheek
- 74) wrist
- 75) kneecap
- 76) thumb
- 77) 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.
- 78) The initial increase in blood flow to active muscles is an example of autoregulation. For example, when oxygen levels decline in a tissue, the cells release chemicals that dilate local blood vessels. This dilation increases the rate of blood flow and provides more oxygen to the region even before responses from the nervous or endocrine system take place. Autoregulation does not require the nervous or endocrine system.
- 79) 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
- 80) lungs, heart, trachea, esophagus, thymus, major blood vessels connected to the heart