## Principles of Human Physiology 6th Edition Stanfield Test Bank Full Download: https://alibabadownload.com/product/principles-of-h

Exam	
Name	
MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the ques	tion.
<ul> <li>1) The smallest living units capable of carrying out their own basic life functions are called <ul> <li>A) organelles.</li> <li>B) organ systems.</li> <li>C) organs.</li> <li>D) tissues.</li> <li>E) cells.</li> </ul> </li> <li>Answer: E</li> </ul>	1)
2) Cells are classified into which of the following four broad categories?  A) squamous, cubodial, columnar, and basement membranes  B) atoms, tissues, organs, and organ systems  C) skeletal, cardiac, endocrine, and nervous  D) endocrine, nervous, integumentary, and reproductive  E) neurons, muscle, epithelial, and connective tissue  Answer: E	2)
<ul> <li>3) Epithelial cells are associated with a noncellular material called a(n)</li> <li>A) endocrine gland.</li> <li>B) basement membrane.</li> <li>C) muscle fiber.</li> <li>D) fibroblast.</li> <li>E) connective tissue.</li> </ul>	3)
Answer: B  4) are found in the linings of hollow organs where they separate fluids in the interior cavifrom the surrounding body fluids. The interior cavity of a hollow organ or vessel is known as a  A) Elastin cells: cavity B) Endocrine cells: lumen C) Epithelial: lumen D) Connective tissues: basement membrane E) Smooth muscle cells: cavity  Answer: C	ity 4)
<ul> <li>5) The tissue type that generates mechanical force and movement, and whose activity is controlled both on a voluntary and involuntary level, is tissue.</li> <li>A) epithelial</li> <li>B) muscle</li> <li>C) connective</li> <li>D) nervous</li> <li>E) skeletal</li> <li>Answer: B</li> </ul>	5)

<ol><li>Glands are derived from the first of the first of</li></ol>	om what type of tis	sue?			6)
A) reticular	B) connective	C) epithelial	D) nerve	E) muscle	
Answer: C					
7) The cell types blood, it cell classes?  A) endocrine cells B) neurons C) connective tissue D) epithelial cells E) muscle cells	• ,	h would be categori	zed into which of t	he following major	7)
Answer: C					
8) Which tissue type included elastin?  A) connective tissue B) epithelial tissue C) muscle tissue D) endocrine tissue E) nervous tissue Answer: A	e	d in an extracellular	r matrix composed	of collagen and	8)
9) What is a general name connective tissue together A) extracellular mates. B) basement members C) collagenther D) intracellular mates. E) elastin	ther? trix orane	ar material that holo	ds the widely scatte	red cells of	9)
Answer: A					
10) Which of the followin resist stretching?  A) basement members by elastin  C) collagen  D) erythropoietin  E) vimentin		d in connective tissu	e that provides the	tensile strength to	10)
Answer: C					
<ul> <li>11) What are the structure</li> <li>A) intracellular ma</li> <li>B) ligaments</li> <li>C) tendons</li> <li>D) aponeuroses</li> <li>E) extracellular ma</li> <li>Answer: C</li> </ul>	trix proteins	to muscle?			11)

12) Organs of the body are defined as	12)
A) a collection of tissues that function independently of one another.	
B) a collection of cells that perform similar functions.	
C) a collection of cells that function independently of one another.	
<ul> <li>D) two or more tissues combined to form a structure that allows each tissue to function independently.</li> </ul>	
E) a combination of two or more tissues that make up a structure which performs a specific function.	
Answer: E	
13) Which of the following accurately represents the order of complexity for the components of the	13)
body, from least to most complex?	
A) cells, tissues, organs, organ systems     B) organ systems, cells, tissues, organs	
C) cells, tissues, organ systems, organs	
D) organ systems, organs, tissues, cells	
E) tissues, cells, organs, organ systems	
Answer: A	
14) The uptake of nutrients across the epithelial cells of the gastrointestinal tract and into the bloodstream is called	14)
A) reabsorption.	
B) absorption.	
C) excretion.	
D) secretion.	
E) filtration.	
Answer: B	
15) What organ system includes the pituitary gland, adrenal gland, and thyroid gland?	15)
A) integumentary	·
B) nervous	
C) endocrine	
D) cardiovascular	
E) immune	
Answer: C	
16) The lumen of which of the following systems is part of the internal environment?	16)
A) gastrointestinal and urinary systems	
B) respiratory system	
C) gastrointestinal system	
D) urinary system	
E) cardiovascular system  Answer: E	
Allswer. E	
17) The process whereby fluid from the bloodstream enters the tubules of the kidneys is called	17)
A) excretion.	
B) reabsorption.	
C) secretion.	
D) absorption.	
E) filtration.	
Answer: E	

18) The process whereby fluid in the kidneys is transported from the tubules back into the bloodstream	18)
is called	
A) filtration.	
B) excretion.	
C) reabsorption.	
D) secretion.	
E) absorption.	
Answer: C	
19) Referring to a membrane as "selectively permeable" describes its ability to	19)
A) provide a barrier that restricts the movement of all molecules across a membrane.	
B) allow the movement of particular molecules across a membrane.	
C) restrict only the movement of potassium across the membrane.	
D) provide a minimal barrier that allows almost any molecule to move across a membrane.	
E) restrict only the movement of sodium across a membrane.	
Answer: B	
20) Extracellular fluid is composed of	20)
A) interstitial fluid and plasma.	
B) intracellular fluid only.	
C) interstitial fluid only.	
D) plasma only.	
E) plasma and intracellular fluid.	
Answer: A	
21) Total body water is composed of	21)
A) intracellular fluid only.	
B) plasma and intracellular fluid.	
C) extracellular fluid only.	
D) intracellular and interstitial fluid.	
E) intracellular and extracellular fluid.	
Answer: E	
20) \\( \( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\( \) \\(	20)
22) Where is most of our total body water located?	22)
A) in blood	
B) surrounding the cells	
C) inside cells	
D) in the lumen of the gastrointestinal tract	
E) in the lumen of the kidneys	
Answer: C	
22) Which of the following community contain went of the custom found in the human had 2	22)
23) Which of the following compartments contain most of the water found in the human body?	23)
A) extracellular fluid	
B) plasma	
C) intracellular fluid	
D) lumen of the intestinal tract	
E) interstitial fluid	
Answer: C	

•		cellular fluid compa	artments of the bod	y?		24)
	intracellular fluid	•				
•	interstitial fluid a	•				
	intracellular fluid	and interstitial flui	d			
	interstitial fluid ar		u			
Answ		ia biood				
25) Tho n	ortion of body wa	tor outside of calls	that hathes most co	lls of the body is ca	llod	25)
-	interstitial fluid.	ter outside of ceris	triat batries most ce	iis or the body is ca	neu	
•	plasma.					
	intercellular fluid					
D) (	extracellular fluid					
E) 1	intracellular fluid					
Answ	er: A					
		with a high sodiun	n and protein conce	entration is called		26)
•	extracellular fluid					
	interstitial fluid.					
	intracellular fluid	extracellular fluids.				
	plasma.	atracential riulus.				
Answ						
27) Which	n of the following	best describes intra	rellular fluid?			27)
	rich in proteins an		ioondia nara			
	rich in proteins ar	•				
C) 1	rich in sodium an	d chloride				
	-	tassium, and chlor	ide			
E) ı	rich in potassium	and chloride				
Answ	er: A					
	-	with a high sodiun	n concentration tha	t contains only trace	e amounts of	28)
•	n is called					
	plasma. intracellular and a	extracellular fluids.				
•	extracellular fluid					
•	interstitial fluid.	•				
	intracellular fluid					
Answ	er: D					
29) For a	person weighing	150 pounds, how m	any liters of water	are contained in all	of the body's	29)
-	artments?					
A) '	11	B) 70	C) 50	D) 14	E) 42	

Answer: E

30)	Homeostasis is a term which describes the process whereby the body	30)	
	A) maintains a variable internal environment.		
	B) maintains a constant external environment.		
	C) maintains a constant internal and external environment.		
	D) affects the external environment.		
	E) maintains a constant internal environment.		
	Answer: E		
	A HOWER. E		
31)	Of the following conditions associated with excess heat, which is the most serious condition?	31)	
	A) heat stroke		
	B) dizziness		
	C) excessive sweating		
	D) dehydration		
	E) heat exhaustion		
	Answer: A		
32)	The maintenance of a stable internal environment compatible for life is called	32)	
	A) anatomy.		
	B) biochemistry.		
	C) physiology.		
	D) homeostasis.		
	E) microbiology.		
	Answer: D		
33)	What is the primary mechanism for maintaining homeostasis?	33)	
33)	A) negative feedback		
	B) inherent control		
	C) intrinsic control		
	·		
	D) positive feedback		
	E) extrinsic control		
	Answer: A		
34)	Which of the following statements about homeostasis is FALSE?	34)	
,	A) The extracellular fluid is maintained in a state compatible for life.	, <u> </u>	
	B) The primary mechanism to maintain homeostasis is positive feedback.		
	C) Homeostasis is the maintenance of the internal environment.		
	D) Illness can result if homeostasis is disrupted.		
	E) The organ systems work together to maintain homeostasis.		
	Answer: B		
	Albwei. D		
	Changes in the external environment alter the, which is detected by the, and	35)	
	that information is sent to the integrator.		
	A) error signal : regulated variable		
	B) sensor : regulated variable		
	C) regulated variable : set point		
	D) regulated variable : sensor		
	E) set point : regulated variable		
	Answer: D		

36)	Lisinoprii is a medication that lowers high blood pressure back to within a desired range of	36)
	function. The action of this medication is similar to that of a(n) in the human body.	
	A) integrating center	
	B) regulated variable	
	C) set point	
	D) negative feedback response	
	E) positive feedback response	
	Answer: D	
37)	If you were to take the temperature of everyone in class, assuming no one is sick, you would find	37)
·	that not everyone has a temperature of 98.6°F. Which statement below best explains your findings?	·
	A) Most regulated variables, such as temperature, fluctuate continuously and oscillate about the	
	set point due to negative feedback control.	
	B) The measuring instrument is not working properly; everyone has a set point of 98.6°F.	
	C) If the subject is not at 98.6°F then he or she is in a disease state	
	D) Their temperature is no doubt higher than 98.6°F because a positive feedback loop has	
	increased the subjects' metabolism.	
	E) An error signal has occurred and a positive feedback response has put the persons in question	
	out of the normal range of function.	
	Answer: A	
201	When people cut themselves, they have clotting factors in their blood that will be released	38)
30)	continuously in a cascade until their blood clots and terminates the bleeding. What mechanism	30)
	caused their blood to clot?	
	A) negative feedback control	
	B) positive feedback control	
	C) homeostasis	
	D) reabsorption	
	E) secretion	
	Answer: B	
30/	A detects a change in a regulated variable and sends that information to a(n)	39)
37)	which relays signals to a(n), usually a muscle or a gland.	J7)
	A) stimulus : receptor : organ system	
	B) sensor : integrating center : effector	
	C) receptor : integrating center : negative feedback control	
	D) sensor : effector : integrating center	
	E) receptor : stimulus : regulated variable	
	Answer: B	
۱۷)	Vinnie has high blood alugges and must take insulin shots to central his blood cugar. Why must be	40)
4U)	Vinnie has high blood glucose and must take insulin shots to control his blood sugar. Why must he	40)
	override his normal homeostatic mechanisms by taking medication?	
	A) Vinnie's negative feedback controls are not functioning properly.	
	B) An error signal has been sent to Vinnie's integrating center, which is not functioning properly.	
	C) Vinnie's sensors are detecting high levels of glucose and therefore are not secreting insulin	
	due to positive feedback control.	
	D) Vinnie's positive feedback controls are not functioning properly.	
	E) Vinnie's set point has changed telling him he needs more sugar.	

Answer: A

41) A patient has a high salt or sodium intake which draws fluid out of his cells to dilute the sodium.	41)
This process occurs as a result of	
A) negative feedback control.	
B) excretion.	
C) reabsorption.	
D) positive feedback control.	
E) absorption.	
Answer: A	
(1) The process of maintaining the internal equipment in a state compatible for life is called	42)
42) The process of maintaining the internal environment in a state compatible for life is called	42)
, and it occurs primarily through	
A) homeostasis : negative feedback     B) positive feedback : intrinsic control	
C) intrinsic control : negative feedback	
D) negative feedback : intrinsic control	
E) intrinsic control : homeostasis	
Answer: A	
43) Which of the following is an example of negative feedback?	43)
A) During a blood clot, platelets release ADP, which stimulates platelet aggregation, causing	
platelets to release more ADP.	
B) During an infection, the body temperature set point is increased. The hypothalamus	
communicates to skeletal muscles to shiver and to blood vessels to decrease blood flow to the	
skin, causing a rise in body temperature.	
C) Consumption of caffeine increases urine output, causing dehydration.	
D) At the time of birth, uterine contractions push the baby toward the cervix. Receptors in the	
cervix detect the pressure caused by the baby and cause the release of a hormone called	
oxytocin. This hormone stimulates stronger uterine contractions, which push more on the	
baby, causing an increase in pressure and another increase in oxytocin. The cycle continues	
until the baby is delivered from the mother.	
E) If blood pressure increases above normal, baroreceptors in major arteries detect the change	
and send signals to the brain. Certain areas of the brain then send signals to the nerves that	
control the heart and blood vessels to make the heart beat slower and the blood vessels	
increase in diameter, which in turn reduce the blood pressure.	
Answer: E	
44) Luteinizing hormone-mediated regulation of estrogen during ovulation in women is an example of	44)
A) both a positive and a negative feedback loop.	
B) a negative feedback loop.	
C) a quasi-negative feedback loop.	
D) a quasi-positive feedback loop.	
E) a positive feedback loop.	
Answer: E	
45) The feedback loop involving luteinizing hormone and estrogen is terminated by	45)
A) ovulation, which directly inhibits luteinizing hormone secretion.	,
B) pregnancy.	
C) birth.	
D) ovulation, which decreases estrogen secretion.	
E) nothing; the cycle cannot be terminated.	

Answer: D

46)	Which of the following	g is a normal blo	ood glucose level?			46)	
	A) 100 mg/dL						
	B) 50 mmolar						
	C) 100 gm/mL						
	D) 200 mmolar						
	E) 50 mg/dL						
	Answer: A						
47)	What is the difference	between diabet	es mellitus and diab	etes insipidus?		47)	
	A) One causes diarr						
		_	y; the other a deficit i	_			
	•		; the other a resistan				
	•		the other a resistance the other causes incr				
	•	aseu nuiu ioss,	the other causes incl	easeu triirst.			
	Answer: B						
48)	What cells secrete insu					48) _	
	A) beta cells of the p						
	B) alpha cells of the	•					
	<ul><li>C) G cells of the adr</li><li>D) several cells loca</li></ul>		the hady				
	E) I cells of the adre	•	the body				
	Answer: A	riar cortex					
	Allswei. A						
49)	Approximately what p	percentage of pe	eople living in the Ur	nited States suffers fro	om diabetes	49) _	
	mellitus?	D) 0 50/	0) 450/	D) 00/	F) 0.10/		
	A) 1%	B) 0.5%	C) 15%	D) 8%	E) 0.1%		
	Answer: D						
50)	Which of the following	g people would	be more prone to de	velop diabetes mellit	tus type II?	50)	
	A) an obese Hispan					_	
	B) an obese white a						
	C) an obese Hispan						
	D) a thin, malnouris		merican child				
	E) a thin white adu	Ιτ					
	Answer: C						
51)	What percentage of ac	dults in the Unit	ed States is obese?			51)	
	A) 15%	B) 20%	C) 25%	D) 10%	E) 35%		
	Answer: E						
52)	Which of the following	g types of diabe	tes mellitus was forn	nerly referred to as ir	nsulin-dependent or	52)	
	juvenile-onset diabete	es mellitus?		-	•	_	
	A) type 1						
	B) diabetes insipidu	JS					
	C) type 2						
	D) prediabetes	.4					
	E) gestational diabe	etes					

Answer: A

53) What are the two major consequences for those who suffer from diabetes mellitus?	53)
A) low blood sugar and fainting	-
B) high blood glucose and glucose in the urine	
C) high blood glucose and cells that cannot utilize that glucose for energy	
D) high blood glucose and excessive urination	
E) high blood glucose and excessive thirst	
Answer: C	
54) Although diabetes mellitus has many symptoms, the primary diagnostic symptoms of the disease	54)
are and  A) elevated blood glucose : glucose in the urine	
B) elevated blood glucose: lethargy	
C) elevated blood glucose : lethargy  C) elevated blood glucose : poor healing	
D) lethargy : dizziness	
E) dizziness : dehydration	
Answer: A	
55) What lab test, often deemed the "lie detector test" by health care workers, measures the average	55)
blood glucose levels for the past 2-3 months?	
A) glucose tolerance test	
B) hemoglobin A <sub>1c</sub> test	
C) random blood glucose test	
D) siphon test	
E) fasting blood glucose test	
Answer: B	
56) Obesity is identified using what measurement?	56)
A) ethnicity scale	
B) CDC disease scale	
C) body mass index (BMI)	
D) waist circumference scale	
E) body type index	
Answer: C	
57) What percentage of women will develop type 2 diabetes after developing gestational diabetes?	57)
A) 25-30% B) 3-4% C) 12-15% D) 5-10% E) 1-2%	
Answer: D	
58) What is the primary reason the prevalence of diabetes is increasing in the U.S. population?	58)
A) obesity	
B) lack of physical activity	
C) an aging population	
D) sedentary lifestyles	
E) the U.S. diet	
Answer: C	

59) Prediabetics have a fasting blood glucose level of and, according to the Centers for	59)
Disease Control (CDC), approximately million Americans are prediabetic.	
A) 500-1000 mg/dL : 300	
B) 70-100 mg/dL : 10	
C) 100-125 mg/dL : 80	
D) 200-250 mg/dL : 50	
E) 300-400 mg/dL : 100	
Answer: C	
60) John has type 2 diabetes. He has a sedentary lifestyle, is overweight, and recently went to the	60)
doctor who gave him a hemoglobin A <sub>1c</sub> test which came back at 7%. What is the best course of	
treatment for John?	
A) insulin shots and a healthy diet	
B) a strict diet, frequent monitoring of his blood glucose, exercise, and oral glucose medication	
C) insulin shots and exercise	
D) measure his BMI, continued monitoring of his blood glucose levels with a hemoglobin $A_{1c}$	
test, and changes in lifestyle	
E) frequent monitoring of his blood glucose levels with insulin shots	
Answer: B	
61) Which tissue below is specialized for lining the lumen of vessels material?	61)
A) epithelial tissue	·
B) connective tissue	
C) nervous tissue	
D) muscle tissue	
E) reticular tissue	
Answer: A	
62) Which tissue below conducts signals primarily via electrical impulses?	62)
A) epithelial tissue	
B) connective tissue	
C) nervous tissue	
D) muscle tissue	
E) reticular tissue	
Answer: C	
63) Which tissue below provides structural support?	63)
A) epithelial tissue	
B) connective tissue	
C) nervous tissue	
D) muscle tissue	
E) reticular tissue	
Answer: B	
64) Which tissue below contracts to generate force?	64)
A) epithelial tissue	
B) connective tissue	
C) nervous tissue	
D) muscle tissue	
E) reticular tissue	
Answer: D	

65) The elimination of unabsorbed materials from the body refers to which of the processes below?	65)	
A) reabsorption B) excretion		
C) secretion		
D) absorption		
E) filtration		
Answer: B		
66) Movement from the lumen of the gastrointestinal tract to the blood would represent which of the following processes?	66)	
A) absorption		
B) filtration		
C) excretion		
D) reabsorption		
E) secretion		
Answer: A		
67) Movement from the blood into the kidney tubules would represent which of the following	67)	
processes?		
<ul><li>A) secretion</li><li>B) absorption</li></ul>		
C) excretion		
D) reabsorption		
E) filtration		
Answer: E		
68) Which of the following is/are associated with the endocrine system?	68)	
A) pancreas		
B) esophagus		
C) adrenal gland D) blood vessels		
E) bronchi		
Answer: C		
(0) Which of the fellowing is/an acceptated with the general contents?	(0)	
<ul><li>69) Which of the following is/are associated with the nervous system?</li><li>A) bronchi</li></ul>	69)	
B) esophagus		
C) adrenal cortex		
D) blood vessels		
E) brain		
Answer: E		
70) Which of the following is/are a component of the cardiovascular system?	70)	
A) bronchi		
B) esophagus		
C) adrenal gland		
D) brain E) blood vessels		
Answer: E		
/ MIDWOT: L		

71) Which of the following is/are associated with the respiratory system?						71)	
B) eso C) bro D) bro							
Answer	С						
	f the following	g is/are associated w	rith the gastrointestir	nal system?		72)	
B) bra C) ad	ain renal gland ophagus						
Answer							
73) The sma	ıllest living un		ing out their own bas	sic life processes, are		73)	
A) tis: Answer:		B) molecules.	C) atoms.	D) cells.	E) organs.		
A) leu B) ery C) lyr D) ka	kocytes. /throcytes. mphocytes. ryocytes. moglobin.	n in the bloodstream	are called			74)	
A) ep	ithelial	zed for separating fl B) connective	uids? C) nervous	D) muscle	E) endocrine	75)	
Answer	Α						
	ithelial	component of bone B) connective	, ligaments, and bloc C) nervous	od? D) muscle	E) endocrine	76)	
•	•	ized for generating e	· ·			77)	
A) ep Answer:	ithelial C	B) connective	C) nervous	D) muscle	E) endocrine		
•	•	zed to contract?				78)	
A) ep Answer:	ithelial D	B) connective	C) nervous	D) muscle	E) endocrine		

79) The specific structures that attach bone to bone are called	79)	
A) smooth muscle.		
B) sheathing.		
C) ligaments.		
D) tendons.		
E) skeletal muscle.		
Answer: C		
80) The is the interior compartment of a hollow organ or vessel.	80)	
A) lumen		
B) intracellular matrix		
C) epithelium		
D) cavity		
E) basement membrane		
Answer: A		
81) The process whereby enzymes are moved into the gastrointestinal tract to digest nutrients is called	81)	
A) absorption.	, <u> </u>	_
B) filtration.		
C) reabsorption.		
D) secretion.		
E) excretion.		
Answer: D		
Allswei. D		
82) The process whereby fluid and ions that have not been reabsorbed by the kidneys exit the body as	82)	
urine is called		
A) filtration.		
B) excretion.		
C) secretion.		
D) reabsorption.		
E) absorption.		
Answer: B		
02) The fluid (non-cellular) parties of blood is called	02)	
83) The fluid (non-cellular) portion of blood is called	83)	_
A) the internal environment.		
B) interstitial fluid.		
C) plasma.		
D) intracellular matrix.		
E) intracellular fluid.		
Answer: C		
84) The fluid compartment with a high protein and potassium concentration is called	84)	
A) the internal environment.		
B) extracellular fluid.		
C) total body water.		
D) intracellular fluid.		
E) interstitial fluid.		
Answer: D		

85)	Where is most of the wa	iter in the body fo	und?			85)	
	A) in the extracellular						
	B) in the interstitial fl	uid					
	C) in the plasma						
	D) in the intracellular						
	E) in the lumen of the	e stomach					
	Answer: D						
04)	Lead Parkers Income and the				1 1. 2	0()	
86)		•	•	is released when glucose		86)	
		the concept of he	egative reedback, v	what effect will insulin h	ave on blood		
	glucose levels?						
	A) It will decrease the						
	B) Insulin will not aff	_					
	C) It will increase the		_				
	D) It makes them go	•					
	E) Insulin does not re	guiate blood glut	ose ieveis.				
	Answer: A						
87)	What cells secrete insuli	in?				87)	
,	A) exocrine cells					,	
	B) alpha cells						
	C) beta cells						
	D) collagen cells						
	E) neurons						
	Answer: C						
						>	
88)	Body mass index is a me	easure of weight i	n kilograms relati	ve to		88)	
	A) gender.						
	B) height in meters (s	squared).					
	C) arm length.						
	D) weight (in kilogra						
	E) waste circumferen	ice.					
	Answer: B						
89)	Pre-diabetics have fasti	na blood alucose	levels of			89)	
,	A) 100-125 mg/dL	<b>y y</b>				,	
	B) 70-100 mg/dL						
	C) 90-100 mg/dL						
	D) 150-200 mg/dL						
	E) 200-210 mg/dL						
	Answer: A						
90)	What type of ductless g  A) salivary				E) overing	90)	
	A) Salival V	B) endocrine	C) matrix	D) sweat	E) exocrine		

Answer: B

91	) Which state	ement be	low b	pest defines homeostasis?	91)	
				process whereby the body changes with the external environment.		
	-			process whereby the body maintains the internal environment in a state		
	-	atible for		intained through positive feedback loops.		
	•			to the regulation of temperature in the human body.		
				s all regulated variables are at the set point.		
	Answer: B			, , , , , , , , , , , , , , , , , , ,		
92	) Which state	ement be	low I	ists the essential components of a feedback loop and describes their	92)	
	function?	_				
		rets the i	-	gulated variable; set point is the value of the regulated variable; integrator mation and sends it to the appropriate effector; effector alters the regulated		
	B) Senso	r detects	a reg	gulated variable; integrator interprets the information and sends it to the		
	appro to nor	-	fecto	r; effector alters the regulated variable; organ system returns the body back		
			•	s the information; set point is the value of the regulated variable; effector variable.		
				e regulated variable; integrator interprets the information and sends it to		
	•			ector; effector decides if it will react or not to the signal.		
	it to tl	ne appro	priat	ue of the regulated variable; integrator interprets the information and sends e effector; effector alters the regulated variable; set point is the point the		
			alwa	ys return to.		
	Answer: A					
TRUE/F	ALSE. Write	'T' if the	state	ement is true and 'F' if the statement is false.		
93	) Physiology	is the stu	udy c	of function and can come in many forms, including plant physiology.	93)	
	Answer: 🥥	True	I	False		
94	) Pathophysi	ology is	what	happens when normal body functions are disrupted.	94)	
	Answer: 0	True	I	False		
95	) Connective	tissue fo	orms	both endocrine and exocrine glands.	95)	
	Answer:	True	0	False		
96	) Exocrine gl	ands seci	roto k	normones	96)	
70	Answer:	True		False	70)	
97	•	•	n pro	tects the body from invading microorganisms.	97)	
	Answer: 0	True	ı	False		
98	) Most of the	cells of t	the bo	ody are able to directly exchange materials with the external environment.	98)	
	Answer:	True	<b>0</b>	False	•	
99	) The interna epithelial c		terna	I environments are separated by the selectively permeable membranes of	99)	
	Answer: •	True	ı	False		

100)	The most al	oundant su	ubstance in the body is carbon.	100)
	Answer:	True	False	
101)	Intracellula	r fluid and	extracellular fluid are of the same ion composition.	101)
	Answer:	True	▶ False	-
102)	The homeon		nanisms of the body are unlimited in their ability to respond to changes in the	102)
	Answer:	True	False	
103)	Blood gluco	ose is a reg	ulated variable.	103)
	Answer: 0	True	False	
104)	Effectors br Answer:	-	a final response in a negative feedback loop. False	104)
105)	Docitive for	dback loor	os are impossible to stop once they have begun.	105)
103)	Answer:	•	False	
106)			involve a decrease in plasma levels of insulin.	106)
	Answer:	True	False	
107)	Diabetes m	ellitus requ	uires insulin injections for maintenance.	107)
	Answer:	True	False	
108)	Once a wor	man develo	ops gestational diabetes, she will have diabetes for life.	108)
	Answer:	True	False	
109)	People with mellitus.	n a body m	ass index (BMI) less than 25 are most prone to develop type 2 diabetes	109)
	Answer:	True	False	
110)	Cases of dia		itus are increasing throughout the world, not just in the United States.  False	110)
	Answer:	rrue	raise	
111)	٠.	•	person to develop type 1 diabetes mellitus.	111)
	Answer:	True	False	
112)	Diabetes m	ellitus caus	ses hyperglycemia.	112)
	Answer: 0	True	False	

## Principles of Human Physiology 6th Edition Stanfield Test Bank

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

113) Describe the four general groups of cells (tissues) that are found in the body, outlining the important characteristics of each group and their functions.

Answer: Nervous tissue - Neurons are specialized for the transmission of information in the form of electrical signals. They typically possess a number of branches that function to receive or transmit those electrical signals. Some are even capable of detecting sensory information.

Muscle tissue - Muscle cells are involved in force development and movement. They tend to be elongated in shape and can be under either voluntary or involuntary control.

Epithelial tissue - Epithelial cells are arranged as a sheet-like layer of cells connected to a thin, non-cellular basement membrane. These cells are found in many shapes, sizes, and layer thicknesses. They are closely associated with their neighbors, providing a barrier separating body fluids from the external environment. Certain epithelial cells are specialized to transport specific molecules from one compartment to another.

Connective tissue - This tissue encompasses many cell types including blood cells, bone cells, and many others. In a narrow sense, these cells provide physical support for other structures like tendons and ligaments. In a broader sense, the term connective tissue encompasses fluids like blood and lymph that "connect" parts of the body by providing an avenue for communication.

114) Water is the most abundant molecule in the human body. Identify both the amount of water and its location within the body.

Answer: TBW represents the total volume of fluid within the body and is approximately 42 liters for an ideal human subject of 150 pounds. Most of the water in the body (28 liters) is found in intracellular fluid or the fluid found inside of cells. Extracellular fluid (14 liters of TBW), the fluid outside of cells, is composed of two compartments. One is the fluid component of blood (plasma), which is approximately 3 liters. The second is the fluid that bathes cells (interstitial fluid), which makes up 11 liters of TBW.

115) Blood glucose is a regulated variable controlled by a negative feedback loop. Explain what is meant by the term negative feedback and discuss how this mechanism would work in the case of high blood glucose.

Answer: Negative feedback systems reverse the response of an increasing variable back to the set point for that variable. In this case, the rising blood glucose levels are detected by the sensors or beta cells within the pancreas. The beta cells also act as the integrating center and release the hormone insulin into the blood stream. Insulin causes glucose to move from the plasma of the blood into the cells of the body or effectors therefore driving down the levels of glucose back to within normal ranges.

116) Compare and contrast the different forms of diabetes.

Answer: There are several types of diabetes, including diabetes mellitus type 1, diabetes mellitus type 2, diabetes insipidus, and gestational diabetes. Diabetes mellitus types 1 and 2 are associated with insufficient actions of insulin causing hyperglycemia and a number of other symptoms.

Diabetes mellitus type 1 is caused by decreased secretion of insulin. Without sufficient insulin, cells do not uptake glucose to meet their metabolic needs. Liver and muscle cells do not uptake insulin to store energy for later needs. Thus hyperglycemia and fatigue are common symptoms.

In diabetes mellitus type 2, beta cells of the pancreas secrete insulin, but effector cells do not respond to the insulin. Thus symptoms are similar to that of diabetes mellitus type 1.

Diabetes insipidus is a disease affecting the release of antidiuretic hormone (ADH). ADH promotes water reabsorption from the kidneys, and in its absence (or a decrease in tissue responsiveness to it), excessive water is lost in the urine causing dehydration.

Gestational diabetes develops in some pregnant women. It is similar to type 2 diabetes mellitus, with hormones of pregnancy thought to induce the insulin resistance. Gestational diabetes often reverses following delivery of the baby.