Life Science 7

Chapter 22-1 Notes p 580-583 **Body Organization**

Objectives

- Identify the major tissues found in the body.
- Compare an organ with an organ system.
- Describe what **homeostasis** is.
- Describe a major function of each organ system

Homeostasis

homeostasis:						
	0	generally maintained through the use of feedback loops a stimulus causes a response, which "feeds back" and causes another stimulus				
		ex: body temperature, pain response, blood clotting				
Four Tissue Types						
•	tissue:					
1	4 1	types of tissue in the human body				
	0	: forms linings and coverings, also forms glands				
	0	: monitors the environment and sends electrical signals to and from the brain/spinal cord				
	0	: cells that cause movement				
	0	: joins, supports, protects, insulates, nourishes, cushions organs (includes bone, blood, fat, cartilage, tendons, ligaments, meninges, etc)				
)ro	ans vs Organ Systems				
_	organs:					
•	<u> </u>	<u> </u>				
 ex: heart, lungs, kidneys, brain, stomach, etc. 						

<u>or</u>	rgan systems:
_	Here are the 11 different organ systems
1:	The Integumentary System
O	rgans
0	Includes skin, glands, nails, hair
Fι	unctions
0	underlying tissues and organs
0	regulates found here
0	excretes some wastes (through sweating)
	`
	Muscular System
	ajor organs
0	skeletal muscles (eg: biceps brachii, triceps brachii), smooth
_	muscles, cardiac muscle
_	unctions
	moves around
0	moves around
	moves through body regulation (shivering, goosebumps)
	Skeletal System
	•
IVI	ajor Organs:
О Г.	unational
	unctions:
0	body
	stores/releases organs
	used for movement (along with muscular system)
	· · · · · · · · · · · · · · · · · · ·
	Cardiovascular System
	ajor organs:
	, arteries, veins, capillaries
	unctions
	pumps throughout body
0	delivers to appropris
	destinations

		Nervous System lajor Organs:
	F : 0	unctions monitors external/internal environment control center of the body causes quick changes throughout the body in response to stimuli
#	6:	Lymphatic System / Immune System
	M	lajor Organs
	0	, spleen, thymus
	F	unctions
	0	returns to the bloodstream
		filters and removes from blood
#	7 :	Digestive System
	M	lajor organs
	0	mouth, esophagus,, small intestine, large
	_	intestine, liver, pancreas
	F	unctions
	0	food
		through physical and chemical methods eliminates
#		Endocrine System
		•
•		lajor organs pituitary gland, thyroid gland, parathyroid gland, pineal gland, ovaries
	O	testes, adrenal glands, pancreas
_	F	unctions
		works with nervous system to
	0	ex: growth, puberty, maintains blood sugar, causes "fight or flight"
		response
#	9:	Respiratory system
Major organs		·
	0	
	F	unctions
	0	absorbs from air
	0	releases into air
	0	involved with maintaining blood pH

#10: Urinary System						
Major Organs:						
o, ureters,	, urethra					
■ Functions						
o filters	from blood					
o excretes wastes						
o helps maintain						
#11a: Female Reproductive System						
Major Organs:						
o, oviducts, uterus,	vagina					
Functions						
o produces						
 produces protects, nourishes promotes female development during puberty 	during development					
 promotes female development during puberty 	/					
11b: Male Reproductive System						
Major organs						
o, prostate gland, Cowper's	gland, vas deferens,					
penis						
■ Function						
 creates and delivers 	_					
 promotes male characteristics 						