Human Body Systems Interactions – Study Guide

Word Bank for Questions 1-9

tissue

organism

organ system

organ

cell

Levels of Organization Fill-in-the-Blank

- 1. Cells work together to form tissue
- 2. <u>**Tissue</u>** work together to form organs.</u>
- 3. Organs work together to form ______ organ systems ______.
- 4. _____ make up organisms.
- 5. Word = ___<mark>cell</mark>_____
- 6. Sentence = ____tissue_____
- 7. Paragraph = <u>organ</u>_____
- 8. Chapter = ____organ system___
- 9. Book = <u>organism</u>____

Human Body System Matching

1 C Norrigue Sustem	A. The major organs of this system are the lungs. This system allows
1GNervous System	the body to breathe.
	B. The major organs of this systems are glands that produce chemicals
2EIntegumentary System	to help control body functions such as growth and development.
	C. White blood cells in this system fight pathogens (germs).
3KDigestive System	
	D. The major organs of this system include the tonsils, the spleen, and
 JSkeletal System 	other lymph nodes that help remove dead pathogens (germs) and
	other wastes from the body by contracting of skeletal muscles.
	E. The major organ of this system is the skin. This system covers and
5LExcretory System	protects the body.
	F. The 3 types of tissue in this system include smooth, striated, and
6	cardiac. This system provide shape, support, and movement for the
	body.
	G. The major organs of this system include the brain and spinal cord.
7ARespiratory System	This system controls the body.
	H. The major organs of this system include the kidneys and the
8BEndocrine System	bladder. The kidneys filter the blood and produce urine that is
	stored in the bladder until the body is ready to release the waste.
	I. The major organs of this system are the heart and the blood vessels.
9FMuscular System	This system provides transportation for nutrients, oxygen, and other
	substances throughout the body.
	J. The human body has 206 bones that help protect the internal
10ICardiovascular System	organs and a variety of joints that allow movement. This system
	also produces red blood cells in the marrow of the bones.
	K. This system has many organs including the stomach and the
11 H Urinany System	intestines. This system is responsible for breaking down food for
11HUrinary System	
	the body.
12 C Immune Custom	L. This system consists of 4 other systems that help the body removes
12CImmune System	wastes. These systems include the integumentary (sweating),
	respiratory (exhaling carbon dioxide), urinary (releasing urine), and
	digestive systems (releasing feces).

Systems Interactions

Action	Which body systems are in use during this action?	How do you know these systems are part of this action?
Brushing your teeth	Skeletal Muscular Nervous Respiration Cardiovascular	respiration and cardiovascular provides blood with oxygen and energy to move your muscles; the muscles are moving the bones to lift and maneuver the toothbrush to clean the teeth which are also bones; the nervous system is directing the action using information from the senses (eyes, touch, taste)
Scoring a touchdown	Muscular Skeletal Nervous Cardiovascular Respiratory	Nervous receives and interprets stimuli "messages (eyes, touch, taste. Respiratory gives cells needed gases for cell processes. Cardiovascular transports needed materials (macromolecules and gases) to cells, Digestive takes those materials and breaks them down for cells "energy." Skeletal and muscular aid in movement of materials into digestive system. Excretory works with Integumentary for sweating and removing waste, cooling body for homeostasis.
Texting	Muscular Skeletal Nervous	Nervous receives and interprets stimuli (sound and sight), Respiratory gives cells needed gases for cell processes. Cardiovascular transports needed materials (energy/ gases) to cells, Digestive takes those materials (macromolecules) and breaks them down for cells to use. skeletal and muscular aid in movement of body to make text.
Eating breakfast	Skeletal Muscular Nervous Respiration Cardiovascular	Nervous receives and interprets stimuli, Respiratory gives cells needed gases for cell processes. Cardiovascular transports needed materials (macromolecules and gases) to cells, Digestive takes those materials (macromolecules) and breaks them down for cells to use. skeletal and muscular aid in movement of materials into digestive system.

How does the skeletal system interact with the...

- 1. ...muscular system? <u>Muscular system works with skeletal system to move parts of the body.</u>
- 2. ...respiratory system? Skeletal system works with respiratory system to protect the lungs.
- 3. ...cardiovascular system? <u>Skeletal system works with cardiovascular to provide blood to the body.</u>
- 4. ...nervous system? <u>Skeletal system works with nervous system to send messages to muscles to move</u> and receive information regards to movement.
- 5. ...digestive system? <u>Skeletal system works with digestive system to provide needed materials to cells</u> and tissues that move the body.
- 6. ...immune system? <u>Skeletal system works with the immune system to make cell for the immune</u> response