



Summary 2.1 Grade 7

<u>SUMMARY NOTES - HUMAN ORGAN SYSTEMS</u>

Part 1: Levels of Organization

Levels of Organization				
cell	tissue	organ	organ system	organism
simple st most complex				

a. Cells				
Definition:	The basic structural and functional unit of living things.			
4 Examples:	skin cell	nerve cell	muscle cell	blood cell



b. Tissues				
Definition:	Two or more co	ells working tog	ether to perfor	m a task.
4 Examples:	epithelial	nerve / nervous	muscle	connective

C. Organs				
Definition:	Two or more t	issues working	together to per	form a task.
4 Examples:	skin	brain	heart	lungs

d. Organ Systems				
Definition:	Two or more organs working together to perform a task.			
4 Examples:	circulatory	digestive	endocrine	excretory



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Part 2: Human Organ System

Organ System		Main Function	Main Organs	
1.	circulatory	To move blood, oxygen, nutrients, carbon dioxide and hormones, around the body	heart, blood, arteries, veins capillaries	
Or	gan System	Main Function	Main Organs	
2.	digestive	Series of connected organs that allow the body to break down and absorb food, and remove waste.	mouth, esophagus, stomach small & large intestines, rectum anus	
3.	endocrine	Collection of glands that secrete hormones into the blood to regulate bodily functions, such as growth and metabolism.	pituitary, pineal, thyroid, pancreas, adrenals, ovaries, testes	
4.	excretory	Produces and eliminates a waste product called urea, which is produced when certain foods are broken down.	kidney, urinary bladder, urethra	
5.	immune	The body's defense system against pathogens, including bacteria, viruses, protozoa, and others.	white blood cells, thymus, spleen, bone marrow, lymph nodes	
6.	integumentary	Acts as a protective barrier, retains body fluids, eliminates waste products, and regulates body temperature.	skin, hair, nails, skin glands	



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7.	respiratory	Allows humans to take in vital oxygen from the air and expel carbon dioxide and water vapor.	BACCALAUREA lungs, diaphragm, trachea
8.	muscular	Contains over 650 muscles that aid in movement, blood flow, and other bodily functions.	skeletal muscles, smooth muscles, cardiac muscle (heart)
9.	nervous	Sends signals through the body; controls both voluntary actions (e.g. conscious movement) and involuntary actions (e.g. breathing).	brain, spinal cord, nerves
10.	skeletal	Provides shape, support, and protection for the body; allows for movement; produces red blood cells.	bones, tendons, ligaments, cartilage, bone marrow
11.	reproductive	Allows for sexual reproduction; in makes it is to produce sperm cells; in females it is to produce eggs.	testes, penis, ovaries, uterus, vagina