## Science 8

### Unit 4: Cells, Tissues, Organs and Systems Topic 5: Tissues, Organs and Systems



Student 1	Name:		
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#### **Tissues:**

- Groups of similar cells
- Found in all multicellular organisms
- Ex. Muscle tissue, nerve tissue, epithelial tissue, etc

#### Organs:

- Groups of tissues. Made up of two or more types of tissues.
- They are distinct structures that perform specific functions.
- Ex. Lungs, kidneys, heart, etc.

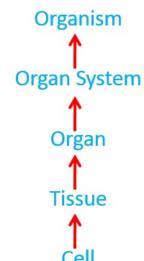
All systems have the following characteristics:

- Made up of individual parts that work together as a whole
- Often connected to one or more systems. If one part of a system is missing or damaged, the system will not function well or may not function at all.
- There are 11 systems in the human body

#### **Organ Systems:**

A group of organs that perform activities that help the body as a whole. 6 examples of organ systems are...

System	Function	Consist of	
Digestive System	To take in and break down food, absorb nutrients, and eliminate solid waste.	Small Intestine Liver Large Intestine Pancreas Esophagus Stomach Gall Bladder Mouth	
Circulatory System	To transport blood, nutrients (chemicals needed for survival), gases and wastes.	Heart Arteries, Veins Capillaries	
Nervous System	To detect changes in the environment and to signal these changes to the body which then carries out a response	Brain Spinal cord Nerves Sense organs	
Respiratory System	To control breathing, and exchange gases in lungs and tissues	Nasal cavity Trachea Lungs	
Excretory System	To remove liquid and gas wastes from the body	Lungs Kidneys Urinary bladder	
Muscular System	To work with the bones to move body parts	Muscle tissue connected to bones throughout the body.	



## **PART A: MULTIPLE CHOICE**

What is the basic unit of all life?

1.

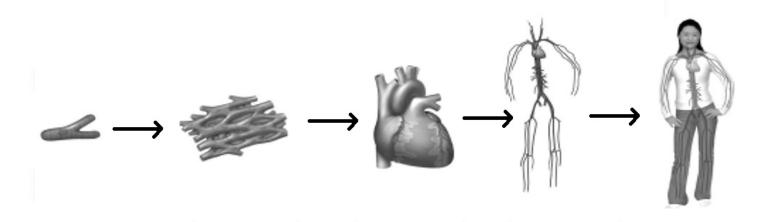
Instructions: Shade the letter of the correct answer on the computer scorable answer sheet provided.

	(A)	Cell
	(B)	Microbe
	(C)	Organ
	(D)	Tissue
2.	Whic	h of the following refers to a group of similar cells performing the same function?
	(A)	Cell
	(B)	Organ
	(C)	System
	(D)	Tissue
3.	Whic	h tissues helps with movement within the body?
	(A)	Connective tissue
	(B)	Skin tissues
	(C)	Muscle tissue
	(D)	Nerve tissue
4.	Whic	h of the following refers to a collection of tissues that perform a particular function?
	(A)	Cells
	(B)	Muscle
	(C)	Organ
	(D)	Tissue
5.	Whic	h of the following is an example of organ in human beings?
	(A)	heart
	(B)	lungs
	(C)	stomach
	(D)	All of them
6.	What	body system that is responsible for breaking down your food to usable nutrients?
	(4)	Province to the second control of the second
	(A)	Respiratory system
	(B)	Digestive system
	(C) (D)	Circulatory system Excretory system
	(2)	
7.	Whic	h body system that is responsible for balancing the water in your body?
	(A)	Respiratory system
	(B)	Digestive system
	(C)	Circulatory system
	(D)	Excretory system
8.	Whic	h body system that is responsible bringing in oxygen and removing carbon dioxide?
	(A)	Respiratory system
	(B)	Digestive system
	(C)	Circulatory system
	(D)	Excretory system

9.	WIIICII	body system that has the p	ancreas, gan bia	idder, and niver?	
	(A)	Circulatory system			
	(B)	Digestive system			
	(C)	Excretory system			
	(D)	Respiratory system			
10.	Which	body system has the hear	, veins, and arte	ries?	
	(A)	Circulatory system	,		
	(B)	Digestive system			
	(C)	Excretory system			
	(D)	Respiratory system			
11.	What i	What is the main organ in the excretory system?			
	(A)	Kidney			
	(B)	Large intestine			
	(C)	Lung			
	(D)	Small intestine			
12.		Which body system is most responsible for detecting changes in the environment and			
	-	ding to them?			
	(A)	Circulatory system			
	(B)	Digestive system			
	(C)	Nervous system			
	(D)	Respiratory system			
PART	B: FI	LL IN THE BLANK			
		in the vocabulary box to fi	ll in the blanks.	Use each term only once.	
You w	ill not r	need to use every term.			
circula	ntory	ren	roductive	digestive	
respira	•	<u> </u>	scular	excretory	
nervoi	•	org		tissue	
cell	45	012	um	lissue	
	TP1				
1.	The		system con	atrols breathing.	
2.			is a group of ti	ssues working together to perform a	
	task				
3.			is the basic unit	of life	
4	Th.		arvataur 1. a.	a harrag that array out that hader and array.	
4.		nuscles to move the body.	system nas	s bones that support the body and work	
	WILLII	idscies to move the body.			
5.	The		system has	s nerves that detect, signal,	
	and res	spond to changes in the env	rironment.	s nerves that detect, signal,	
(	TT1		4		
6.	body.		system rer	noves liquid and gas wastes from the	
	oody.				
7.			is a group of ce	ells that have the same structure and	
	function	on.			
0	The		arva4a	less in and huseles descent food absorbs	
8.		nts, and gets rid of solid wa		kes in and breaks down food, absorbs	
	nuulti	no, and gots nu or some wa	sic.		
9.	The		system has	s muscles that work with bones to move	
	the boo		~J ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		
10.	The		system mo	oves blood, nutrients, gases, and wastes.	

## PART C: WRITTEN RESPONSE

1. Label the diagram below:



2.	What is a system?
3.	What happens if one part of a system is missing or damaged?
4.	How are tissues related to cells?
5.	How are organs related to tissues?
6.	What are the three characteristics of a system?
7.	Identify the system of the body to which each of the following organs belongs.
(a)	arteries
(b)	liver
(c)	kidneys
(d)	nose
(e)	mouth

# 8. Identify each of the following body systems

