

Name: _____

Total Points: 26

Tissues

Please use the notes on Tissues to complete this live worksheet.

Fill in the blanks with correct answer. (11 pts)

1. _____ are groups of cells working together that help to form part of the plant organs and have one or more functions.
2. Plant tissues are divided into three groups:
_____, _____, and _____.
3. _____ is the outermost layer or layers of tissue that surrounds the plants
4. _____ is the tissue associated with the vascular system
5. _____ is the tissue that is not epidermal or vascular and makes up a large percentage of the plant tissue.
6. Animal tissues are divided into four groups:
_____,
_____,
_____, and
_____.

Complete the tables:

7. Epithelial Tissues (4pts)

Cell shape	Description	Location
squamous		simple: lung alveoli, capillaries stratified: skin, mouth
cuboidal		glands, renal tubules
	tall, narrow, nucleus toward base tall, narrow, nucleus along cell	simple: digestive tract pseudostratified: respiratory tract
transitional	round, simple but appear stratified	

8. Connective Tissues (6pts)

Tissue	Cells	Fibers	Location
loose/areolar	fibroblasts, macrophages, some lymphocytes, some neutrophils		around blood vessels; anchors epithelia
dense, fibrous connective tissue	fibroblasts, macrophages,	mostly collagen	
cartilage		hyaline: few collagen fibrocartilage: large amount of collagen	shark skeleton, fetal bones, human ears, intervertebral discs
bone	osteoblasts, osteocytes, osteoclasts	some: collagen, elastic	
adipose	adipocytes		adipose (fat)
blood	red blood cells, white blood cells	none	

9. Muscular Tissue (5pts)

Type of Muscle	Striations	Nuclei	Control	Location
smooth	no		involuntary	
skeletal	yes		voluntary	skeletal muscles
cardiac		single, in center		heart