Kinesiology	11:	Tissues	Review	Worksh	eet
KILICOLOGY	880	HOOUGO	I I C A I C AA	AACINOII	

Name:	
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Intro to Histology

Cells are the smallest units of life. In complex organisms, cells group together with one another based on similar structure and function to form **tissues**. Tissues provide the numerous functions of organs necessary to maintain biological life. The study of tissues is called **histology**, and is important to the understanding of how the human body is able to function as a unit. The human body is composed of four basic types of tissues; **epithelium**, **connective**, **muscular**, and **nervous** tissues.

- Epithelium- lines and covers surfaces
- Connective tissue- protect, support, and bind together
- Muscular tissue- produces movement

The state of the s
Nervous tissue- receive stimuli and conduct impulses
Answer the following questions:
1. Tissues are groups of similar cells working together to: a. increase the size and mass of structures b. perform common functions c. deliver messages d. fight against disease
2. Which type of tissue would make up the majority of the brain and spinal cord?
3. Which type of tissue would be found in the epidermis and form the lining of internal organs such as the intestines?
4. Which type of tissue would form ligaments, tendons, fat and bone?
5. Which type of tissue makes up majority of the heart?
6. How does the type of tissue in an organ relate to its function? Ly Structure of tissue determines function. Epithelial Tissue
1. Where are epithelial tissues found within the body? all over! Lining all body surfaces inside is out.
2. What are the functions of the epithelial tissues? - protection -absorption -excretion - secretion -sensory perception
3. Epithelial tissues are which means they have no blood flow .
4. What type of tissue always can be found underneath epithelial?
5. Since the epithelial tissues have no blood flow, they are able to receive needed nutrients and expel
wastes through the process known as
6. Do epithelial cells reproduce rapidly or slowly?
7. Are epithelial cells tightly packed or loosely spaced?

Connective Tissue

1.	What characteristics do all connective tissues share in common?
	They bind structures together.
2.	-support - Stores fat - produce blood cell -protection - fill Space - immunity
ti	- help to repair
3.	Waling Bead of loops a light
	a. Hydrice - thas of bords / Joine.
	c. fibrocartilidos Dintevetebral disks, menisci
4 1	
4. I	dentify which type of connective tissue is being described. a. <u>ドレウグ 中会の</u> transports oxygen, carbon dioxide, nutrients, and waste through the
	body by traveling through vessels called arteries and veins.
	b + brows to some state of the sound of t
	and connects bone to bone.
	c. 101000 Tissue is a type of connective tissue that aids in the formation of red and
	white blood cells. This tissue is found in the spleen and the marrow.
	d. <u>FORM</u> is a type of connective tissue with one of the hardest extracellular
	matrixes that forms a protective structure used for muscle attachment. This type of connective tissue is
	formed by a cell known as an osteocyte.
	e. <u>MEUIUM TISSIVE</u> is a type of loose connective tissue that separates the cells of the
	body from the blood stream. It is a "go-between" for nutrients and wastes to leave and enter the blood
	stream on their way to and from the bodies' cells.
	f is a type of connective tissue also known as fat. Its purpose is to store
	excess nutrients and fats as energy. It also serves as a type of insulation for the body. g. <u>elastic cartillage</u> is a semi-solid connective tissue that is used as both a protective and
	supportive structure within the body. This particular type of connective tissue can be found in the nose,
	ears, ribs, and vertebral disks.
	h. Figure is a type of dense connective tissue with irregularly arranged fibers
	that provides strength where tension is exerted in various directions such as in the dermis.
	Where are connective tissues found? All Over the body
2.	What are the functions of connective tissue?
The same of the sa	· Same as #2 above (sorry!)

3. How are connective tissue classified? According to tunction
sontains cells surrounded by a fluid matrix that transports substances 5. Bone +550e contains cells surrounded by a hard matrix that supports and protects 6. Fibrory +550e contains cells that reduce friction and allow flexibility at joints 7. Adopose +550e contains cells that stores energy, insulates the body and cushions organs
Nervous Tissue
1. What are the two types of cells and how are they different? 1) Neurons & structural component, actually transmit the nerve signals. 2) Neuroglial & non conducting, support/protect neurons Muscle Tissue
1. What are the functions of muscular tissue? - movement - joint stabilization - posture - heat generation
2. What are the 3 types of muscle tissue, and where are they found? (1) Smooth Dhollow organs (2) Caroliac DO muscle (3) Skeletal D 3 keletal MA
Tissue Review: Identify the type of tissue from the description below.
C = connective N = nervous E = epithelial M = muscular composed of neurons and neuroglia cells are tightly packed forming continuous cellular sheets highly vascular with elongated cells called fibers involved in secretion, absorption and protection avascular regenerates the quickest of all tissue relies on nutrients from underlying tissue relies on nutrients from underlying tissue covers surfaces, either outside or inside the body may have multiple nuclei and striations receive, integrate and conduct impulses throughout the body receive, integrate and conduct impulses throughout the body involved in movement of body, posture and heat production most common type of tissue