Study Guide 3-3

BODY TISSUES

- 13. Twelve tissue types are diagrammed in Figure 3–6. Identify each tissue type by inserting the correct name in the blank below it on the diagram. Select different colors for the following structures and use them to color the coding circles and corresponding structures in the diagrams.
 - Epithelial cells
 Nerve cells
 - Muscle cells

 Matrix (Where found, matrix should be colored differently from the living cells of that tissue type. Be careful, this may not be as easy as it seems!)

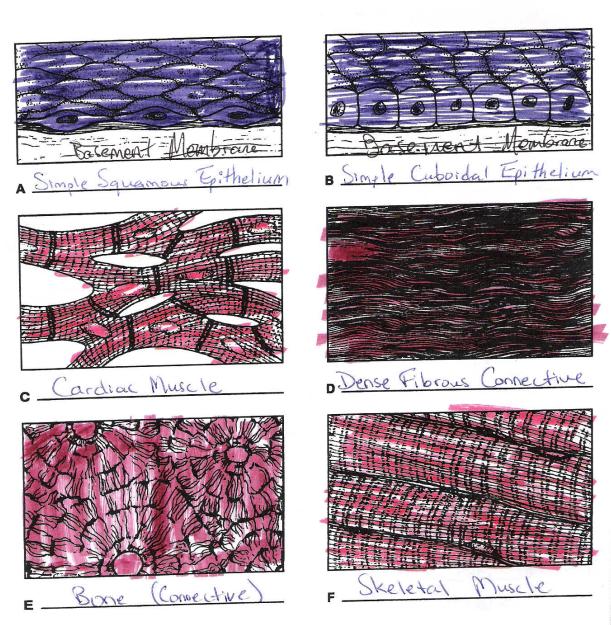


Figure 3-6, A-F

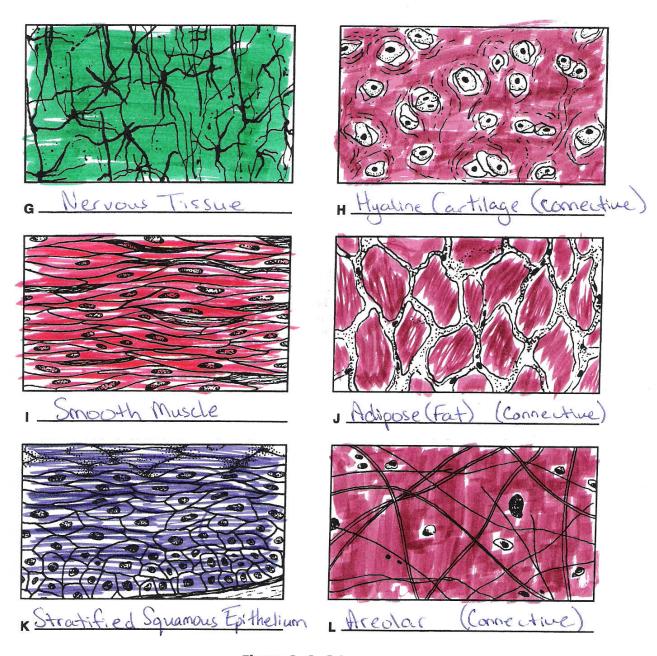


Figure 3-6, G-L

14. Describe briefly how the particular structure of a neuron relates to its function in the body. The neuron (nerve Cell) has Cytoplasmic extentions (like tenticles ability to transmit impulses over **15.** Using key choices, correctly identify the *major* tissue types described. Enter the appropriate letter or tissue type term in the answer blanks.

	Key Choices						
	A. Connective B.	Epithelium	C. Muscle	D. Nervous			
	Epithelium	_ 1. Forms muc	cous, serous, and epic	lermal memb	ranes		
	Muscle		organ movements wi				
	Nervous		electrochemical impul	ESCALA SECTION			
	Connective	_ 4. Supports b	ody organs		N.		
	Epithelium	_ 5. Cells of this	s tissue may absorb a	nd/or secrete	substances		
	Vervous	Oervous 6. Basis of the major controlling system of the body					
	Muscle 7. The cells of this tissue shorten to exert force						
	<u>Epithelium</u>	_ 8. Forms horn	nones				
	Connective	_ 9. Packages ar	nd protects body orga	ns			
	living matrix						
	Muscle	11. Allows you	to smile, grasp, swim	, ski, and sho	oot an arrow		
	Connective 12. Most widely distributed tissue type in the body						
	A STATE OF THE STA		rain and spinal cord				
16.	Using key choices, identification Enter the appropriate letter	fy the following er or classificatio	specific type(s) of epin term in the answer	thelial tissue. blanks.	Re_ el		
	Key Choices						
	A. Pseudostratified colum	nar (ciliated)	C. Simple cuboida	l E. S	Stratified squamous		
	B. Simple columnar		D. Simple squamo		ransitional		
	Stratified Squam	1. Lines the esc	ophagus and forms the	e skin epideri	nis		
S	imple Columnar	2. Forms the lir	ning of the stomach as	nd small intes	tine		
	Stratified Squamon						
PS	endostratified	4. Lines much o	of the respiratory tract				
seu	dostratified column	5. Propels subst	ances (e.g., mucus) a	cross its surfa-	ce		
196	Transitional	6. Found in the one another	bladder lining; peculi	ar cells that s	lide over		
Si	mple Squamous	7. Forms thin se	rous membranes; a si	ngle layer of	flattened cells		

18. The three types of muscle tissue exhibit certain similarities and differences. Check (✓) the appropriate spaces in the following table to indicate which muscle types exhibit each characteristic.

Characteristic	Skeletal	Cardiac	Smooth
1. Voluntarily controlled	V		
2. Involuntarily controlled		V	V
3. Banded appearance			
4. Single nucleus in each cell			V
5. Multinucleate			
6. Found attached to bones			
7. Allows you to direct your eyeballs			
8. Found in the walls of stomach, uterus, and arteries	P	,	
9. Contains spindle-shaped cells			
10. Contains cylindrical cells with branching ends			e
11. Contains long, nonbranching cylindrical cells			F ₂ 1
12. Displays intercalated disks			
13. Concerned with locomotion of the body as a whole			
14. Changes the internal volume of an organ as it contracts			
15. Tissue of the circulatory pump		1. 1.	