LAB TIME/DATE

Classification of Tissues

Tissue Structure and Function: General Review

1 D.S. ii Saesistiz and Grand College College	
1. Define tissue: Specialized Group/Collection of Cells which specific functional role(s).	
specific functional role (s).	
2. Use the key choices to identify the major tissue types described below.	
Key: connective epithelium muscular nervous	
1. lines body cavities and covers the body's external surface	
2. pumps blood, flushes urine out of the body, allows one to swing a bat	
Nervous 3. transmits waves of excitation	
4. anchors and packages body organs	
Fpithe live 5. cells may absorb, protect, or form a filtering membrane Nervous	
6. most involved in regulating body functions quickly	
7. major function is to contract	
8. the most durable tissue type	
9. abundant nonliving extracellular matrix	
10. forms nerves	
pithelial Tissue	
3. On what bases are epithelial tissues classified? Shape Numbers of Layers Even Functional	
Even Functional	
. How is the function of an epithelium reflected in its arrangement?	
1 Stratified Function Protection	
Where is ciliated enishedium for 10 Republic Act Airel 1 Republic	
Where is ciliated epithelium found? <u>Pseudostatitied in Respiratory Tr</u>	act
What role does it is a Properly Music and Particles 1	

Up + Out

6. Transitional epithelium is actually stratified squamous epithelium, but there is something special about it.
How does it differ structurally from other stratified squamous epithelia? Stretches + Re 5/5/5
Tension, when relax apical cells are cuboidal
How does this structural difference reflect its function in the body?
Allows it to hold and contain using acquaiting it
from backing up
7. Respond to the following with the key choices.
Key: pseudostratified ciliated columnar simple cuboidal stratified squamous simple columnar simple squamous transitional
5 tratified Squamors 1. best suited for areas subject to friction
Pseudo Stratifical Ciliated 2. propels substances across its surface
3. most suited for rapid diffusion
Simple Cuboidal 4. tubules of the kidney
Pseudostratified 5. lines much of the respiratory tract
Transitional 6. stretches
7. lines the small and large intestines
Stratified Squamore 8. lining of the esophagus
1 ransitional 9. lining of the bladder
Simple Squamos 10. Alveolar sacs (air sacs) of the lungs
Connective Tissue
8. What is the makeup of the matrix in connective tissues?
9. How are the functions of connective tissue reflected in its structure?

Laboratory Report 7

Name	
Date	
Section	

EPITHELIAL TISSUES

PART A

Match the tissues in column A with the characteristics in column B. Place the letter of your choice in the space provided. (Some answers may be used more than once.)

Column A

- a. Simple columnar epithelium
- b. Simple cuboidal epithelium
- c. Simple squamous epithelium
- d. Pseudostratified columnar epithelium
- e. Stratified squamous epithelium
- f. Transitional epithelium

Column B	
Consists of several layers of cube-shaped elongated cells	and
2. Commonly possesses cilia that move sex and mucus	cells
3. Single layer of flattened cells	
4. Nuclei located at different levels within co	ells
5. Forms walls of capillaries and air sacs of h	
6. Forms linings of respiratory passages	500
7. Younger cells cuboidal, older cells flattene	ed
8. Forms inner lining of urinary bladder	
9. Lines kidney tubules and ducts of salivary	glands
	8 75
A 11. Nuclei located near basement membrane	
E 12. Forms lining of oral cavity, anal canal, and	vagina

Name That Epithelial Tissue!!
1. Forms the outer layer of your skin Keratinized Statified Squamous
2. Lines the passage of the respiratory system <u>Pseudostratified</u> Cilia ted
3. Thin tissues where substances can diffuse across easily Simple Squamo s
4. A good site for oxygen and carbon dioxide exchange Simple Squamos
5. Functions in secretion and absorption and lines the kidneys
6. Secretes digestive fluids to help absorb digested food Simple Columnar
7. Found in both male and female reproductive systems in areas where egg and sperm formation occurs. Simple Columnar (Tends to be (iliated)
8. Found making up the wall of blood vessels
9. The nucleus is found near the basement membrane Simple Columnar
10. Lines your trachea and sinuses (Respiratory) <u>Pseudostratified</u> Ciliated
11. Located in sweat and mammary glands with extra protection Stratified (uboidal
12. Have cilia that help in moving substances Simple Columnar Pseudostratified
13. Lines the stomach and intestines Simple Columnar
14. The have a sticky substances that helps trap dust and move it out of your airways
15. They have goblet cells Pseudostratified + Simple Columnar
16. Produces a tough dray protective material that keeps out water and other substances
Keratinized Stratified Squamous
17. Can be stretched or unstretched and stops the urine from going backwards into your system Transitional

Name: _____Block _____Date____