

Advanced Biology Ch. 1 & 5 Review

1. Define anatomy & physiology.
2. Name & briefly describe the characteristics of life. (Ten of them were listed in Ch 1.)
3. Name & briefly describe the needs of humans for maintenance of life functions. (Five were listed in Ch 1)
4. What term describes the physical & chemical changes that take place in the body? (All of the characteristics of life depend on these changes!)
5. What does the term homeostasis refer to?
6. List the levels of organization within the human body. You should be able to list from the most inclusive level to the most specific level OR the other way around.
7. Quiz items may show back up on the test. These include the following:
 - a. Anatomical position & terminology
 - b. Terms of relative position
 - c. Cavities
 - d. Sections
8. State the definition of a tissue.
9. What type of tissue has a basement membrane. What is its function?
10. What tissue is adapted for diffusion of gases (between lungs & blood or blood & body cells)?
11. What characterizes pseudostratified columnar epithelial tissue?
12. What is the function of keratin? What tissue is it found in?
13. Goblet cells are found in two types of epithelium. Which ones? What is their purpose?
14. Identify the fibers & cells found in loose connective tissue.
15. Where would one find fibrous connective tissue?
16. What type of tissue is comprised of chondrocytes?
17. Why is cartilage slow to heal after an injury?
18. What is unique about the arrangement of osteocytes (bone cells)?
19. Muscle tissue can be described as voluntary or involuntary. What are these terms referring to? Know the classification for each of the three muscle tissues.
20. What are the structural differences & location for each type of muscle tissue?
21. What is the name of the functional cell (coordinates, regulates, integrates) that makes up nervous tissue?
22. Be able to identify each specific tissue type by sight.