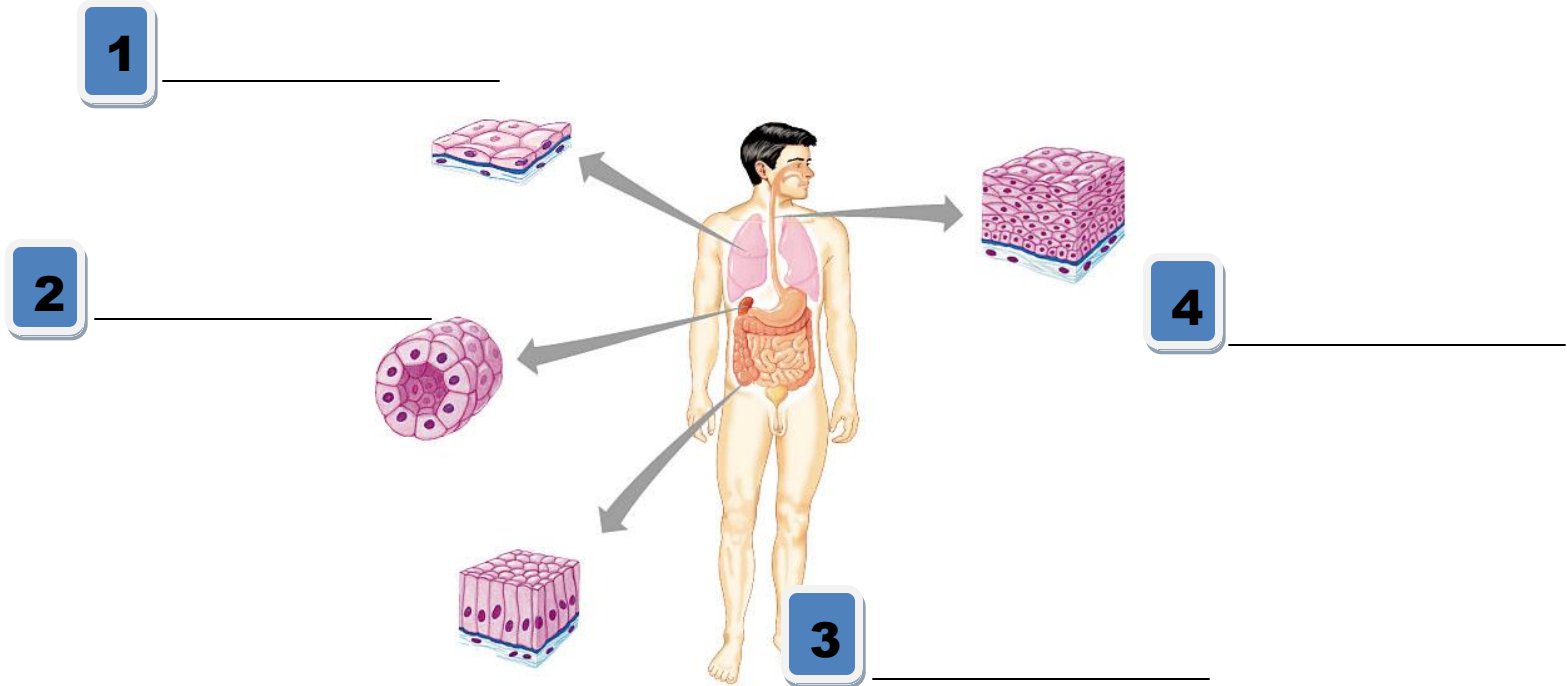


CHAPTER 20 - Unifying Concepts of Animal Structure and Function

Chapter Reading Guide

The Hierarchy of Structural Organization in an Animal

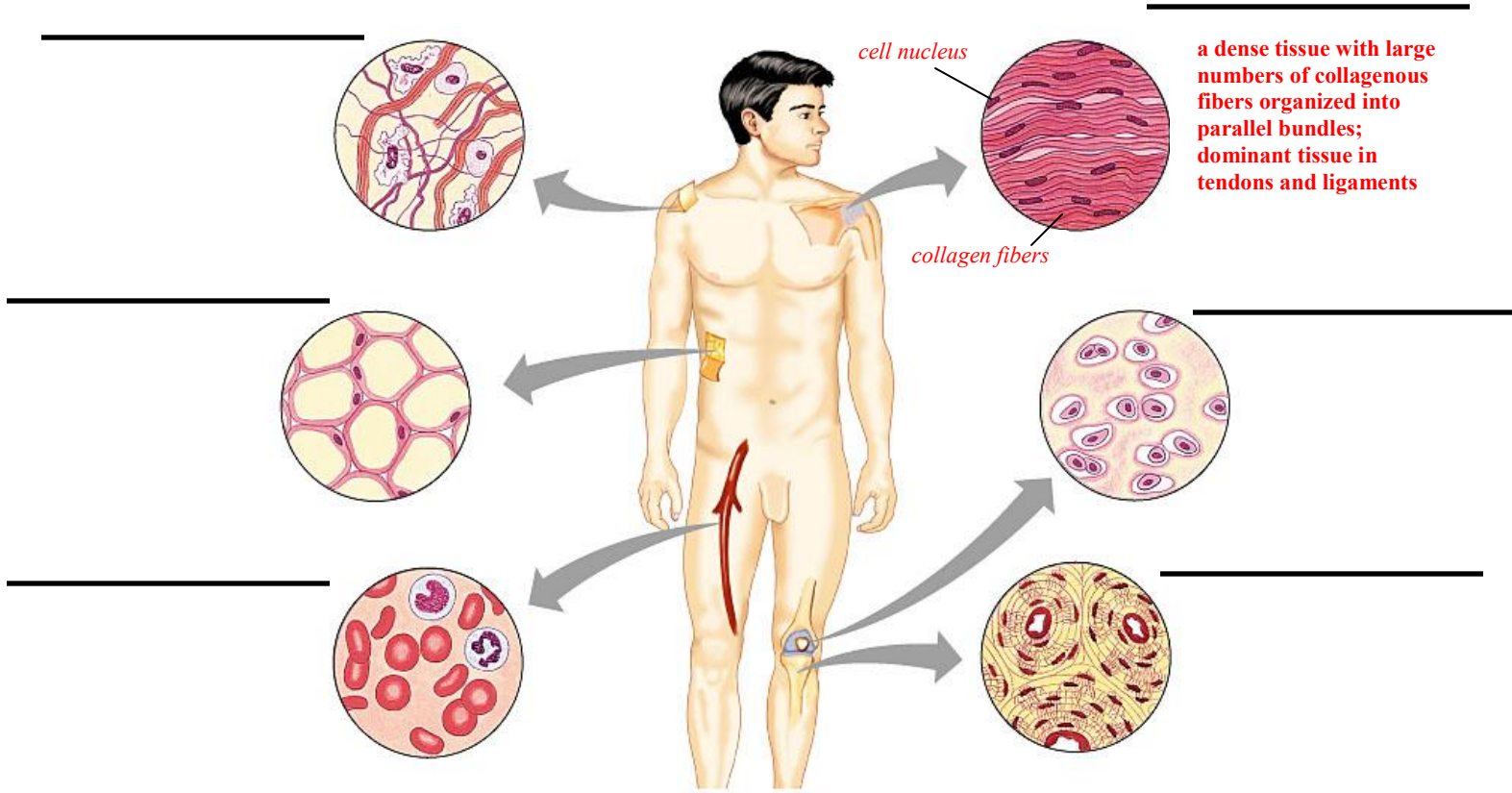
1. Explain how the structure of a bird is adapted for flight.
2. Describe the levels of organization in an animal's body.
3. Define a **tissue** and list the four major categories of animal tissue.
4. Label the diagram. Compose a description for each of the four main epithelial tissues noting how their structures and various locations determine their functions.



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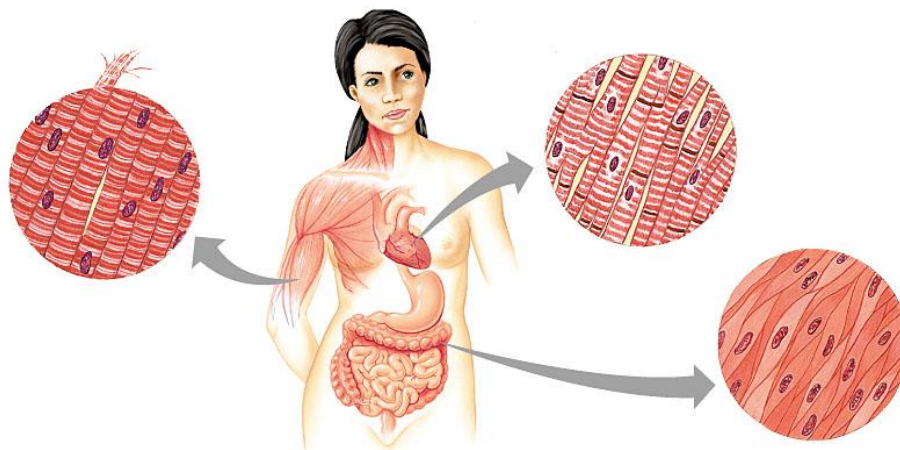
5. Completely label each picture in the following diagram. Provide a definition for each of the six main connective tissue types.

fibrous connective tissue



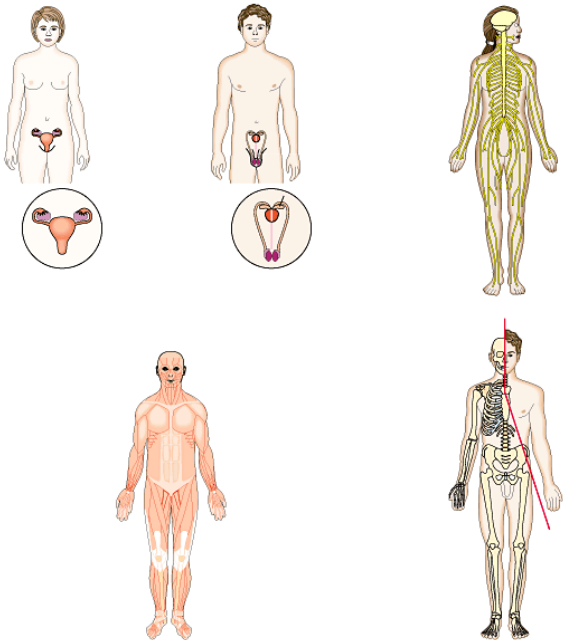
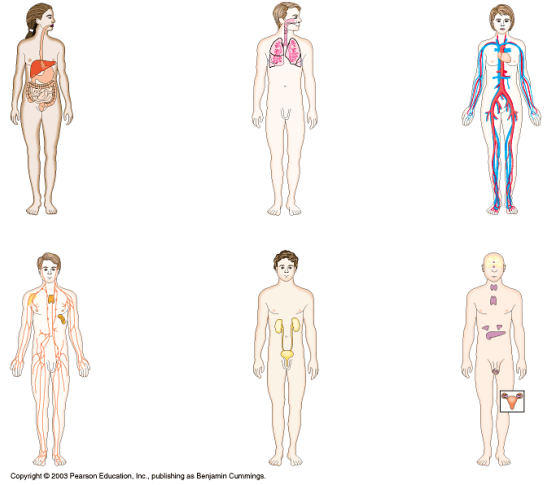
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6. Label the diagram. Compose a description for each of the three main muscle tissues noting how their structures and various locations determine their functions.



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7. Define the term **organ**. Describe the general structures and functions of the twelve major organ systems in vertebrate animals.



8. Describe the systems that help exchange materials between an animal and its environment.

Exchanges with the External Environment

9. Define the concept of homeostasis.

10. Explain how thermoregulation is an example of homeostasis.