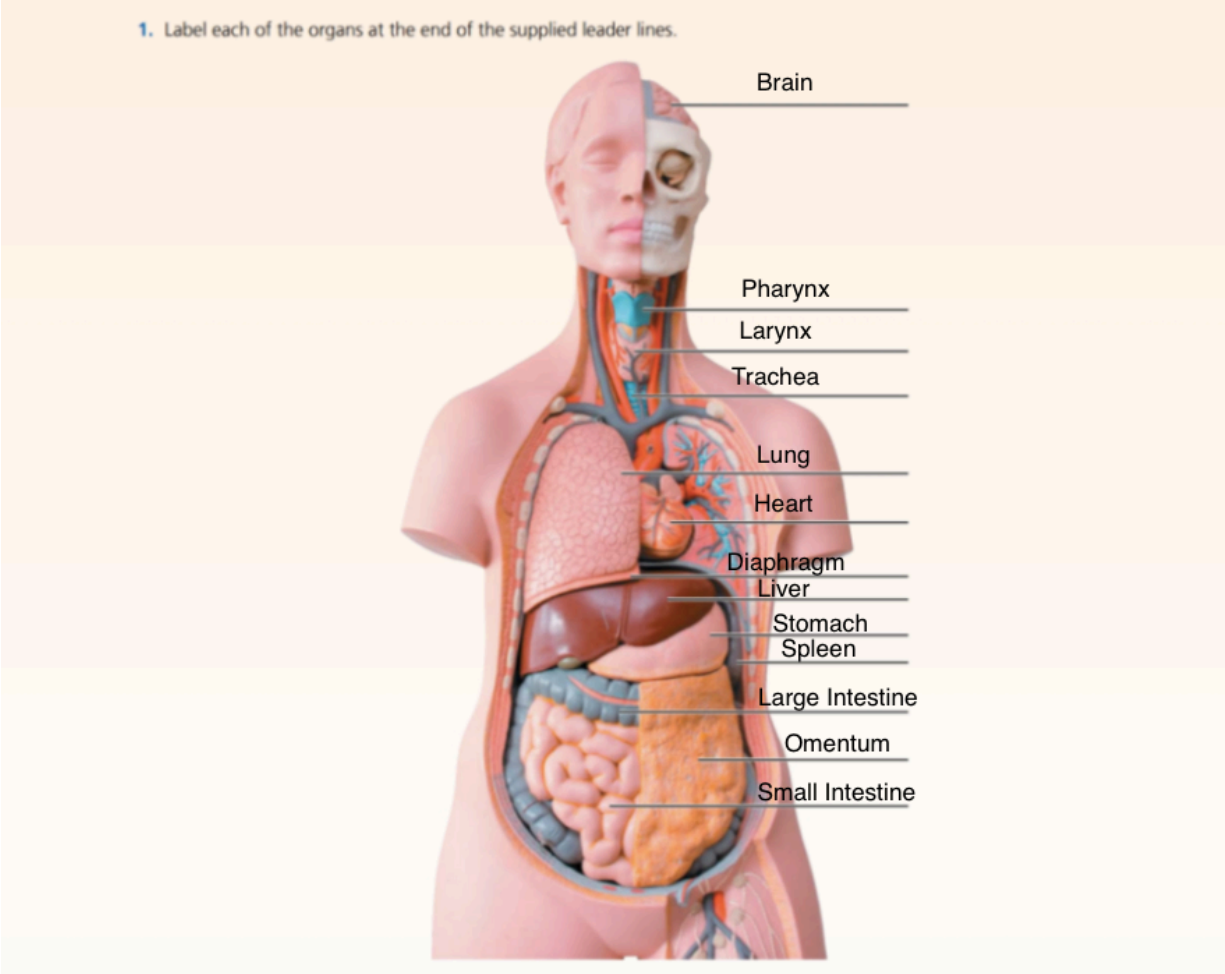
Connie Quan: Bio 2311L – OL29 (Tuesdays 2:30PM-5PM)

**Chapter 2 Review Questions**

**1.**




**2. Name the *organ system* to which each of the following sets of organs or body structures belongs.**

1. Thymus, spleen, lymphatic vessels – **Lymphatic System**
2. Bones, cartilages, tendons – **Skeletal System**
3. Pancreas, pituitary glands – **Endocrine System**
4. Trachea, bronchi, lungs – **Respiratory System**
5. Epidermis, dermis, cutaneous sense organs – **Integumentary System**
6. Testis, prostate – **Male Reproductive System**
7. Liver, large intestine, rectum – **Digestive System**
8. Kidneys, ureter, urethra – **Urinary System**

**3. Name the cells that are produced by the testes and ovaries.**

-Testes produce male sex cells (sperm) and ovaries produce female sex cells (oocytes).

**4. List the four primary tissue types.**

-Connective tissue, epithelial tissue, muscle tissue, and nervous tissue

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**5. Explain why an artery is an organ.**

-An artery is an organ because it has thick muscular walls, which allows them to carry blood even at a high pressure.

**6. Name the two main organ systems that communicate within the body to maintain homeostasis. Briefly explain their different control mechanisms.**

-The endocrine system and the nervous system are two main organ systems that communicate within the body to maintain homeostasis. The endocrine system works with growth rate and regulating functions, such as, metabolism. The nervous system provides quick responses for the body's stability.

**7. Explain the role that the skeletal system plays in facilitating cardiovascular system function.**

-The skeletal system supports and protects the cardiovascular system (heart) and it also forms blood cells.

**8. Untreated diabetes mellitus can lead to a condition in which the blood is more acidic than normal. Name two organ systems that play the largest role in compensating for acid-base imbalances.**

-Respiratory system and urinary system

**9. The mother of a child scheduled to receive a thymectomy (removal of the thymus gland) asks you whether there will be any side effects from the removal of the gland. Which two organ systems would you mention in your explanation?**

-Lymphatic system and endocrine system

**10. Individuals with asplenia are missing their spleen or have a spleen that doesn't function well. It is recommended that these patients talk to their doctor about vaccines that are indicated for their health condition. Explain how this recommendation correlates to their chronic health condition.**

-Individuals with asplenia have a decreased or an absent splenic filtration system and decreased amount of antibody causing them to be higher risk for infection.