

Exchange Systems

Answer the following questions. Use notes, internet, textbook, whatever.

1. What are the principle functional unit of the lungs?
2. What are the principle functional unit of the kidneys?
3. What are the structures of the inner wall of the small intestines called? They increase the surface area of absorption.
4. What types of blood vessels are associated with regions of the body where material is exchanged *i.e.* villi in the small intestines, alveoli in the lungs, nephrons within the kidney, etc.)
5. What process drives the exchange of material at the alveoli of the lungs and villi of the small intestines?
6. Other than the materials exchanged and where they are, how is reabsorption within the nephron different from absorption in the villi and alveoli?
7. Why does it make sense to have blood from the small intestine go through the liver first before circulating to the rest of the body?
8. Why are feces a bad example of excretion?

9. What is cellular respiration and how is it linked with each of the organ systems we have studied so far?

Digestive:

Respiratory:

Excretory:

10. What else do you want to learn about this unit?