**Questions to answer:**

1. Explain the difference between being a “conformer” and a “regulator”.
2. Why does an animal need to eliminate nitrogenous waste?
3. What is the advantage in animals coupling nitrogenous waste excretion to osmolarity regulation?
4. What considerations determine if an animal excretes nitrogenous waste as ammonia, uric acid, or urea?
5. Why is reabsorption of molecules from the filtrate required?
6. Explain how mammals are able to regulate their blood osmolarity through hormonal control.  Diagram the feedback loops involved in this process.

**Things you should make sure you understand:**

**(feel free to ask questions about them in class)**

* The evolutionary trends seen in osmoregulation and excretory systems in animal lineages.
* The advantages and disadvantages of animals using particular compounds as their nitrogenous waste excretion molecule.
* The structure and function of a nephron.
* The structure and function of all parts of the mammalian excretory system.
* The ADH and RAAS excretory control systems.