BIOL 112 – OUTLINE #9 – ANIMAL OSMOREGULATION

1. Water and metabolic waste
2. Osmotic Challenges in different environments
3. water and solute balance in marine animals
4. water and solute balance in freshwater animals
5. water balance in terrestrial animals
6. The sodium/potassium pump
7. structure and function of pump
8. the importance of ion channels and their location
9. Nitrogenous waste
10. Osmoregulation and excretion in invertebrates
11. Osmoregulation and excretion in vertebrates
12. The human kidney
13. structure
14. filtration
15. reabsorption and secretion
16. concentration and solute regulation
17. collection and excretion