

Biology 110 ~ Anatomy and Physiology II
Assignment #5: Urinary System
Fall 2019

Name: _____

Use the space provided to answer each of the questions (15 pts). Due: Monday, November 18th. Late assignments will not be accepted, and plagiarism will not be tolerated!

1. Why is the amount of filtrate formed at the glomerular capillaries greater than the amount of filtrate formed at the systemic capillaries? A complete answer will include a detailed explanation of hydrostatic pressure and the filtration membrane. (3 pts)

2. How do changes in hydrostatic pressure (HP) influence the glomerular filtration rate (GFR)? (1 pt)

3. What is the effect of increased glomerular blood flow on GFR? (1 pt)

4. How does the myogenic mechanism help maintain GFR if glomerular blood flow increases? Describe complete mechanism (1.5 pts)

5. How do the macula densa cells compensate for a reduced GFR? Describe complete mechanism. (1.5 pts)
