Renal Physiology

- 1. The renal system does not play a direct role in regulating which of the following?
- a. Blood solute concentration
- b. Blood temperature
- c. Blood pressure
- d. Blood pH
- 2. Which of the following anatomical portion of a nephron connects the Bowman's capsule to the loop of Henle?
- a. Distal convoluted tubule
- b. Connecting to be all
- c. Proximal convoluted tubule
- d. Collecting duct
- 3. How many nephrons does the average adult human kidney contain?
- a. ~ 1 million
- b. ~ 1000
- c. $\sim 10,000$
- d. ~ 100000
- 4. Urine is formed in a three-step process: which of the following gives the correct order in which these steps take place in the nephron?
- a. Glomerular filtration, Tubular reabsorption, tubular secretion
- b. Tubular reabsorption, tubular secretion, glomerular filtration
- c. Glomerular filtration, tubular secretion, tubular reabsorption
- d. Tubular secretion, glomerular filtration, tubular reabsorption
- 5. Which of the following is least likely to be present in the Glomerular filtration (The filtrate produced by the nephron before it enters the lope of Henle) of a healthy adult nephron?
- a. Amino acids
- b. Glucose
- c. Electrolytes
- d. Large molecular weight protein
- 6. Which of the following choices correctly traces the route of glomerular filtrate on its path to the collecting duct of a nephron?
- a. Bowman capsule, proximal convoluted tubule, descending loop of Hanley, ascending loop of Henley, distal tubule
- b. Proximal convoluted tubule bowman capsule, , ascending loop of Henley, distal tubule, descending loop of Hanley
- c. Descending loop of Hanley, proximal convoluted tubule, ascending loop of Henley, distal tubule bowman capsule,
- d. Ascending loop of Henley, bowman capsule, proximal convoluted tubule, descending loop of Hanley, distal tubule

Urinary System Matching				
	1	Renin	Α	The process of removing nitrogenous waste material, certain salts, and excess water from the blood.
	2	Nephron	В	Perform filtration
	3	Filtrate	С	The opposite of reabsorption
	4	Glomerulus	D	The basic structural and functional unit of the kidney. Under the control of the hypothalamus, this hormone increases the permeability of water in distal and collecting
	5	Aldosterone	E	tubules.
	6	Filtration	F	A hormone released by the kidneys when blood pressure drops.
	7	Excretion	G	A fluid consisting of water, glucose, amino acids, some salts and urine.
	8	Cortex	Н	Stores urine until about 500cc has accumulated
	9	Proximal convoluted tubules	1	The first step in urine formation
	10	Bladder	J	Adrenal hormone that controls urinary secretion
	11	Diuretics	K	Contains the nephrons
	12	Secretion	L	Where 80% of the water filtered out of the blood by the glomerulus is reabsorbed
	13	ADH	М	They increase urinary output by inhibiting the reabsorption of water.
			N	Located behind the peritoneum
			0	Measures the filtering capacity of the glomeruli