

Hand written answers only, use the back of this page or attach additional pages as needed

A. Draw with labels the following renal processes using the histological anatomy to show the function. Name two (2) different substances that are affected by each of these processes.

- i. Glomerular Filtration
- ii. Tubular Reabsorption
- iii Tubular Secretion

B. Properly and completely define the following terms

- i. T-max _____
- ii. Renal threshold _____
- iii Micturition _____
- iv. Counter current multiplier

C. Draw with labels **ALL** areas/regions for the two types of nephrons.

D. Follow the pathway of blood for the renal circuit of blood flow starting at the Descending Abdominal Aorta and ending at the Inferior Vena Cava, listing **ALL** blood vessel structures and types encountered.

E. Draw with labels the histology of the primary (main) epithelial lining for the majority of the urinary system.

F. Name the structures of the JGA, its location, and give its function.

G. Name three hormones *from* the Kidney and give their target organ(s) and function

H. Name three hormones that *target* the Kidney and their function

I. Name six *normal* components of urine, give the normal pH range and specific gravity.

J. Name the four unique capillary dynamic pressures that affect kidney function and give the net result of the pressure forces for a normal kidney.

K. Name and describe three ways the kidneys maintain the acid/base balance in the body.

L. List the structures of the trigone and give its importance.

M. Give the unique function of these areas and name a unique and different problem.

Area	Unique Function	Unique Problem
Urethra		
Ureter		
Urinary Bladder		
Kidney		