Name Per.	Date	
-----------	------	--

Chapter 18- Lab- Pig Kidney Dissection

You are a third year medical student and have been asked by a resident physician to create an instruction manual for first year medical students illustrating the external and internal structures of the Kidney. The resident physician has asked you to include the following structures of the heart in your instruction manual:

External Structures

Anterior View

Hilum

Renal capsule (Draw)

Ureter (Draw)

Medial View

Renal artery

Renal vein

Ureter

Internal Structures

Major calyces (calyx- singular)

Minor calyces

Renal columns

Renal cortex

Renal medulla

Renal papilla

Renal pelvis

Renal pyramids

Ureter

Label the structures from above on the given diagrams below.

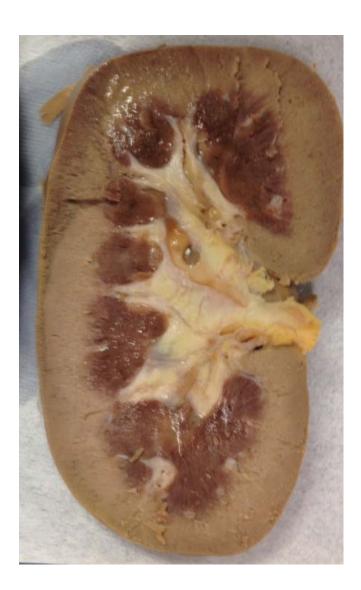
Anterior View



Medial View



Internal Structures



Analysis Questions:

Matching

Match the terms in column A with the descriptions in column B. Place the letter of your choice in the space provided.

	Column A	Column B
a.	Calyces	Shell around renal medulla
b. c.	Hilum Nephron	Branches of renal pelvis to renal papillae
d.	Renal column	3. Conical mass of tissue within renal medulla
e. f.	Renal cortex Renal papilla	4. Projection with tiny openings into minor calyx
g.	Renal pelvis	5. Medial depression for blood vessels and ureter to enter kidney chamber
h. i.	Renal pyramid Renal sinus	6. Hollow chamber within kidney
		7. Microscopic functional unit of kidney
		8. Cortical tissue between renal pyramids
		9. Superior funnel-shaped end of ureter inside renal sinus
10.	Using the terms tubular or diluted.	secretion and tubular reabsorption, describe how urine can become concentrated
11.	Support the claim with yo	ur knowledge about the urinary system, the kidneys, and the nephron.

"Testing urine samples is a highly effective way of determining if an athlete has taken banned substances,

such as performance enhancing drugs (PED's)."

Put in Order

Arrange the following structures of the nephron in order in which substances flow through the urinary system, beginning with the site of filtration.

1.	

ascending limb of the Loop of Henle
Bowman's capsule
calyces (major and minor calyx)
collecting duct
descending limb of the Loop of Henle
distal convoluted tubule
proximal convoluted tubule
renal pelvis
ureter
urethra
urinary bladder