# URINARY SYSTEM

1. Name the organs and tubes of the urinary system:

2 2

1 1

2. Match the following structures with their functions:

kidneys carry urine to bladder from kidneys

ureters stores urine

urethra carries urine from bladder to outside body

bladder filters blood, removes wastes, produces urine

3. Blood enters the kidney via the which is a branch of

the . The blood leaves the kidneys in the

which joins the .

**Topic: Kidney**

4. What is the functional unit of the kidney?

How many are in each kidney?

5. The renal artery branches until each nephron has an leading to it. This leads to a convoluted (twisted) capillary called the The arteriole leads away from the glomerulus to a second capillary bed called the capillaries.

6. Put the following nephron structures in order:

Ascending limb of the nephron loop

Collecting duct

Descending limb of the nephron loop

Distal convoluted tubule (DCT)

Glomerular capsule (Bowman’s)

Glomerulus

Proximal convoluted tubule (PCT)

## Topic: Urine Formation

7. Blood pressure in the glomerulus is: (high or low) .

8. Blood plasma (except for the plasma proteins) moves out of the glomerulus and into the  . This fluid is called .

When/where does the fluid become urine? *.*

9. Summarize the *basic* steps in the formation of urine in the chart below:

|  |  |  |
| --- | --- | --- |
| 1 | Glomerular filtration | Creates plasma-like filtrate of the blood |
| 2 |  |  |
| 3 |  |  |

## Topic: Urine Elimination

10. The inside of the urinary bladder is lined with a epithelium.

The outside of the urinary bladder is covered by a coat.

What is the name of the muscle in the bladder?