



**Across**

- 1 hormone regulated by the hypothalamus and released by the pituitary gland that increases the permeability of the distal tubule and the collecting duct in the nephrons of the kidneys, allowing more water to be reabsorbed into the blood.
- 3 the bottom part of the nephron the loop of \_\_\_\_\_
- 4 the tube through which urine exits the bladder and the body
- 5 The walls of the \_\_\_\_\_ act as a filtration device.
- 6 the cap-like structure at the top of each nephron
- 7 the system that regulates the volume and composition of body fluids by excreting metabolic wastes and recycling some substances for re-use
- 9 organ where urine is stored before being discharged by way of the urethra
- 11 process that removes water from the filtrate in the nephron and returns it to the blood for re-use by body systems
- 13 filtrate passes out of the Bowmans Capsule into the \_\_\_\_\_
- 14 process in which water and useful solutes are reabsorbed from the filtrate in the nephron and transported into capillaries for re-use by the body
- 15 process that moves additional wastes and excess substances from the blood into the filtrate in the nephron; uses mainly active transport
- 17 The \_\_\_\_\_ functions as a water-conservation device, reclaiming water from the filtrate passing through it so that very little precious water is lost from the body.

**Down**

- 2 filtrate passes out of the \_\_\_\_\_ into the collecting duct
- 5 process that results in the movement of water and solutes, except proteins, from the blood plasma into the nephron down a pressure gradient
- 8 one of a pair of organs that filters waste from the blood and adjusts the concentrations of salts in the blood
- 10 The filtered fluid that proceeds from the glomerulus into the Bowman's capsule of the nephron is referred to as
- 12 stimulates the distal tubule and collecting duct of the kidneys to increase the absorption of sodium into the bloodstream
- 16 microscopic tube-like filtration unit found in the kidneys that filters and reabsorbs various substances from the blood; produces urine
- 18 process of separating wastes from body fluids and eliminating them from the body; performed by several body systems, including respiratory, skin, digestive, and excretory systems
- 19 a pair of muscular tubes that carry urine from the kidneys to the bladder