**1. Listening**

*Watch the video and complete the missing words.* https://www.youtube.com/watch?v=hiNEShg6JTI

The kidneys lie outside the **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**, they function as the main **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**and eliminate the body’s metabolic waste products which are then **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**through the urethra. The kidneys adjust blood composition and so maintain blood **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**. In the place called **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**, blood vessels, nerves and ureter connect to the kidney. They consist of up to 18 **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** (each lobe is divided into lobules) which are composed of **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.** The nephron is made up of **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**and a system of tubules.

Plasma like fluid which is filtered through a membrane in kidneys is called filtrate and forms the **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**. The filtrate then enters the tubule system of the nephron where some substances **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** to it and some substances are reabsorbed into the blood.

The nephron tubule is divided intofour segments: proximal **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** tubule, **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**of Henle, **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**tubule and **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

One **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** supplies blood to each kidney. The artery is divided into segmental arteries which then **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**several lobular arteries within the kidney. The afferent and **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**arterioles regulate glomerular capillary pressure by selectively dilating or **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**. Blood from the kidney empties into the **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**.

By reabsorption the **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**of the internal environment is maintained. After filtration and reabsorption, the filtrate concentrates in **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**and then goes to renal **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**from where it passes to the ureter, bladder and urethra.

The kidneys perform an **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**: the blood is filtered and some materials are **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**reabsorbedinto the blood so that a stable internal environment is **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.** The nephron is made up of glomerulus, which **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** and the tubular component where substances are either reabsorbed or **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** the tubular filtrate for elimination.