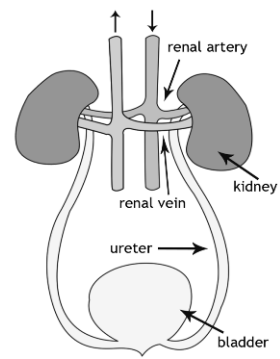


Task 1

Fill in the missing words.

Blood is brought to the kidney
 The kidneys the blood and then reabsorb useful
 such as glucose, and
 After it has been the blood returns to the
 circulatory system through the vein.



purified	water	renal	artery	materials	renal	filter	salt
----------	-------	-------	--------	-----------	-------	--------	------

..... is a product produced in the liver when surplus acids
 are broken down to be used for energy.

It is released into the until it is filtered out and removed by the kidney.

..... is produced in microscopic structures in the kidney called

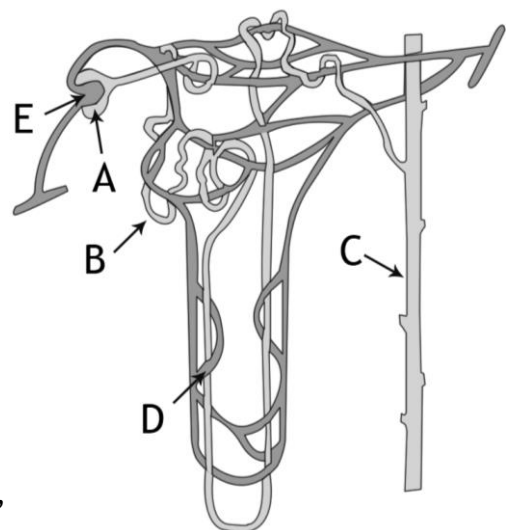
Each kidney has many millions of nephrons. Urine is taken from the kidneys to the bladder by the
 The stores urine until it is convenient to expel it from the
 body.

bloodstream	waste	urine	amino	bladder	nephrons	urea	ureter
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Task 2

Add the correct letters (refer to the diagram) to the steps below that describe how blood is filtered.

1. Blood is filtered in the glomerulus
2. The filtrate is collected by the Bowman's capsule
, and enters the tubules
3. Useful substances such as glucose, some salt and
 water are reabsorbed into the blood.
4. Reabsorption is done by blood capillaries
 which are closely wrapped round the tubules.
5. The waste, consisting of water, some salt and urea
 is urine.
6. The urine is collected by the collecting duct,
 taken to the ureters and then to the bladder.



Colour in the ureter in the top diagram the same colour as the tubule and collecting duct in the
 second diagram. Suggest why it is appropriate to give them the same colour.

Answers

Task 1

Blood is brought to the kidney in the **renal artery**.

The kidneys **filter** the blood and then reabsorb useful **materials** such as glucose, **salt**, and **water** after it has been **purified** the blood returns to the circulation through the **renal vein**.

Urea is a **waste** product produced in the liver when surplus **amino** acids are broken down to be used for energy.

It is released into the **bloodstream** until it is filtered out and removed by the kidney.

Urine is produced in microscopic structures in the kidney called **nephrons**. Each kidney has many millions of nephrons.

Urine is taken from the kidneys to the bladder by the **ureter**. The **bladder** stores urine until it is convenient to expel it from the body.

Task 2

- Blood is filtered in the glomerulus **(E)**
- The filtrate is collected by the Bowman's capsule **(A)**, and enters the tubules **(B)**.
- Useful substances such as glucose, some salt and water are reabsorbed into the blood.
- Reabsorption is done by blood capillaries **(D)** which are closely wrapped round the tubules.
- The waste, consisting of water, some salt and urea is urine.
- The urine is collected by the collecting duct **(C)**, taken to the ureters and then to the bladder.