

CAIE Biology IGCSE

13 - Excretion in Humans

Flashcards

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Where is urea formed? (Higher/Supplement)



Where is urea formed? (Higher/Supplement)

Urea is formed in the liver



What is urea made from? (Higher/Supplement)



What is urea made from? (Higher/Supplement)

Excess amino acids



Which organ excretes carbon dioxide?



Which organ excretes carbon dioxide?

The lungs



State 3 things that the kidneys excrete

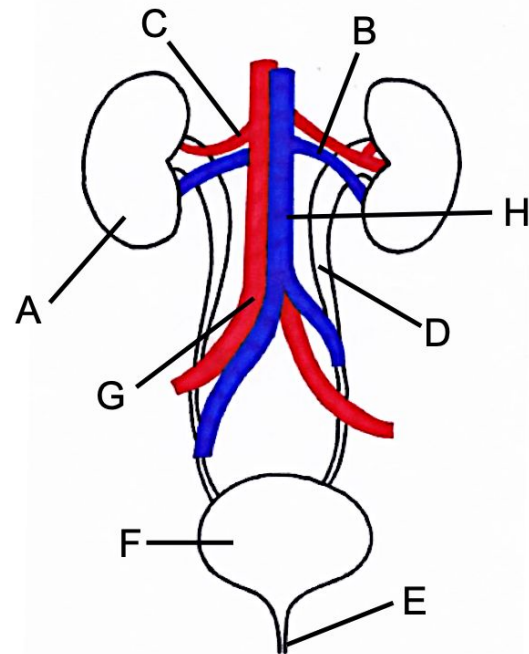


State 3 things that the kidneys excrete

- Urea
- Excess water
- Excess ions

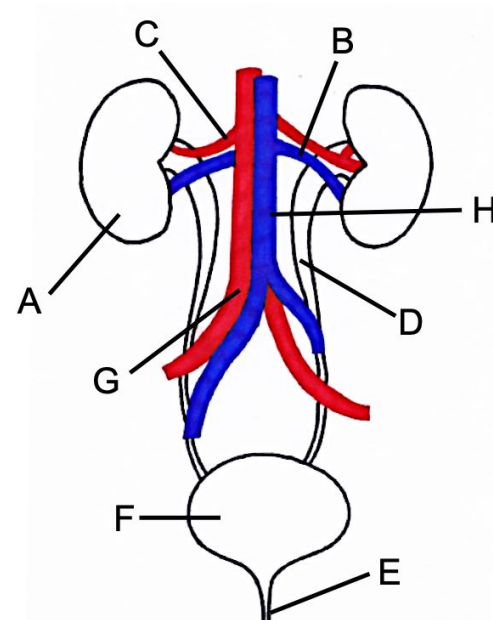


Identify the structures of the excretory system labelled in the diagram



Identify the structures of the excretory system labelled in the diagram

A	kidney	E	urethra
B	renal vein	F	bladder
C	renal artery	G	aorta
D	ureter	H	vena cava



Describe the role of the liver in dealing
with excess amino acids
(Higher/Supplement)



Describe the role of the liver in dealing with excess amino acids (**Higher/Supplement**)

The excess amino acids are converted into different proteins and any unused amino acids must be converted to urea to be excreted

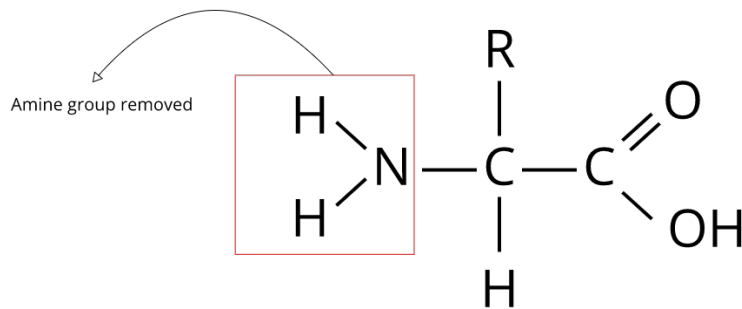


What is deamination? (Higher/Supplement)



What is deamination? (Higher/Supplement)

The removal of the amine group in an amino acid to create urea



Why is excretion necessary? (Higher/Supplement)

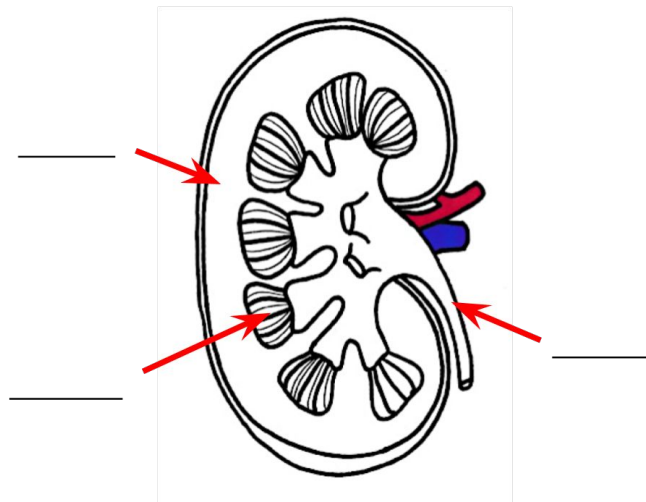


Why is excretion necessary? (Higher/Supplement)

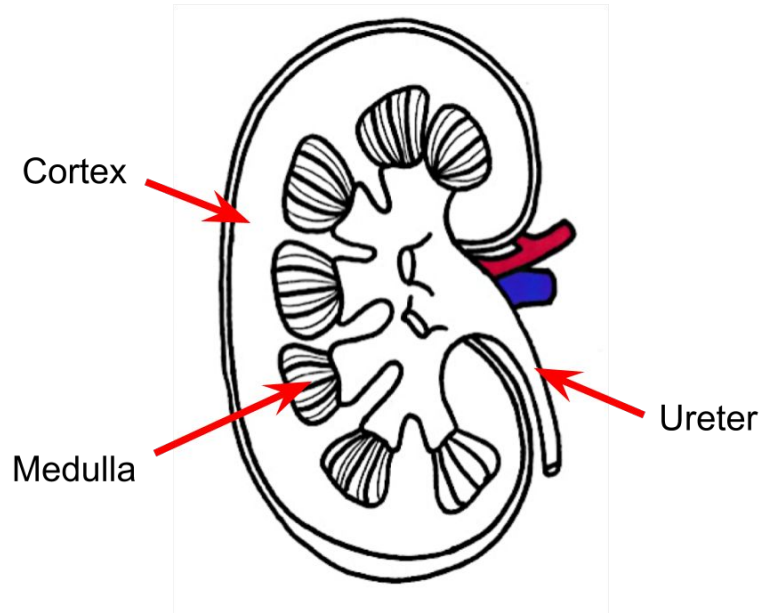
To remove toxic waste substances like urea and carbon dioxide which can be harmful to the body



Label this diagram of a kidney (Higher/Supplement)



Label this diagram of a kidney (Higher/Supplement)



What is the function of the glomerulus in
the kidney?
(Higher/Supplement)



What is the function of the glomerulus in the kidney?
(Higher/Supplement)

To filter out small molecules from the blood (e.g water, urea, glucose and salts)



What molecules does the nephron
reabsorb?
(Higher/Supplement)



What molecules does the nephron reabsorb?
(Higher/Supplement)

- All glucose
- Most of the water
- Some of the salts



What is urine made of? (Higher/Supplement)



What is urine made of? (Higher/Supplement)

- Urine is made up of the remaining fluid in the nephron which mostly consists of excess water which was not filtered out or reabsorbed into the blood.
- It also consists of urea and excess ions.

