

Excretion in Humans

Question Paper 1

Level	IGCSE
Subject	Biology (0610/0970)
Exam Board	Cambridge International Examinations (CIE)
Topic	Excretion in Humans
Sub-Topic	
Booklet	Question Paper 1

Time Allowed: 24 minutes

Score: /20

Percentage: /100

Grade Boundaries:

9	8	7	6	5	4	3	2	1
>85%	75%	68%	60%	53%	48%	40%	33%	<25%



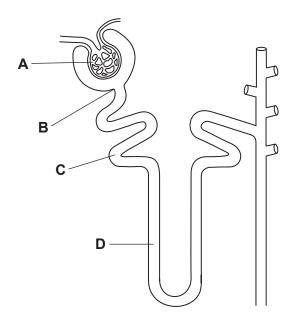
1 \	Which	diet will	cause the	liver to	produce	the most	urea?
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- A high carbohydrate, low fat
- B high fat, high fibre
- **C** high fat, low protein
- **D** high protein, low carbohydrate
- 2 What is an example of excretion in mammals?
 - A the release of hormones from glands
 - **B** the release of saliva into the mouth
 - **C** the removal of undigested food through the anus
 - **D** the removal of urea by the kidneys
- 3 Where is urea formed?
 - **A** kidneys
 - **B** liver
 - **C** muscles
 - **D** small intestine



4 The diagram shows the structure of a kidney tubule.

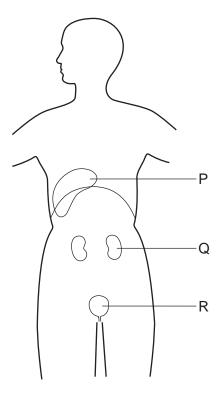
Where does filtration occur?



- 5 Which substance is lost from the body of a healthy person by the kidneys, but **not** by the lungs?
 - A carbon dioxide
 - **B** glucose
 - C urea
 - **D** water



6 The diagram shows some organs in which urea is found.



Which organ makes urea, and which organ removes it from the blood?

	makes urea	removes urea from blood
Α	Р	Q
В	Q	Q
С	Q	R
D	R	Р

- 7 What is a function of the kidneys of a healthy person?
 - A break down toxins
 - B eliminate all salts
 - C reabsorb all glucose
 - **D** retain all water



8	Where are h	normones	removed	from the	e blood	and broken	down ir	the	human	body	٧?
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- A gall bladder
- **B** kidneys
- **C** liver
- **D** stomach
- **9** Where is urea produced in the human body and from which chemicals is it produced?

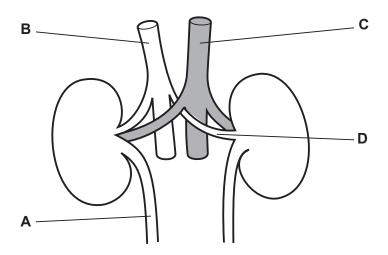
	produced	chemical
Α	intestine	proteins
В	kidneys	amino acids
С	kidneys	fatty acids
D	liver	amino acids



The table shows the composition of a liquid found in the human body.

component	concentration / arbitrary units
amino acids	0.00
glucose	0.00
proteins	0.00
salts	1.50
urea	2.00

In a healthy person, which structure contains this liquid? **B**





11	Whi	ch function does not occur in the kidneys?
	Α	breakdown of alcohol
	В	removal of excess salts from the blood
	С	removal of excess water from the blood
	D	removal of urea from the blood
12	Wh	at is urea formed from?
	Α	amino acids
	В	fatty acids
	С	glucose
	D	glycerol
13	Wh	ich two substances are both reabsorbed in the kidneys?
	Α	glucose and salts
	В	glucose and starch
	С	glycogen and salts
	D	glycogen and starch
14	Wh	ich organ makes urea?
	Α	bladder
	В	kidney
	С	liver
	D	stomach



15 What is the function of the kidner	15	What is t	e function	of the	kidnev	1
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- A making glucose and reabsorbing urea
- **B** making urea and removing salts
- **C** removing glucose and reabsorbing salts
- **D** removing urea and reabsorbing glucose

16 How is urea removed from the body?

- A as insoluble waste
- **B** by being destroyed in the liver
- **C** in expired air
- **D** in solution

17 How does blood change as it passes through a kidney?

- A It gains glucose.
- **B** It gains salts.
- **C** It loses protein.
- **D** It loses urea.



18 The table shows the percentage composition of some chemicals found in blood entering the kidney of a healthy person.

chemical	composition in blood entering kidney/%
glucose	0.10
protein	8.00
urea	0.03

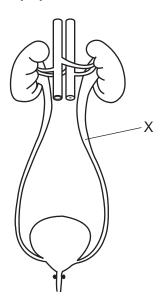
What is the percentage composition of the same chemicals in the urine of a healthy person?

	composition in urine/%						
	glucose protein urea						
Α	1.00	4.00	0.03				
В	0.00	4.00	0.00				
С	0.00	0.00	2.00				
D	0.10	8.00	2.00				

- 19 Which organs remove excretory products from the blood?
 - A bladder and liver
 - **B** bladder and lungs
 - **C** kidneys and bladder
 - **D** lungs and kidneys



20 The diagram shows the human urinary system.



What is the part labelled X?

- A renal artery
- B renal vein
- **C** ureter
- **D** urethra