Excretion in humans – 2022 November IGCSE 0610 Biology

1. Nov/2022/Paper 11/No.25

Which substances are excreted from the human body?

- 1 carbon dioxide
- 2 urea
- 3 water
- A 1 and 2 only **B** 1 and 3 only **C** 1, 2 and 3 2 and 3 only

2. Nov/2022/Paper 13/No.25

Which statement about the formation of urea is correct?

- Urea is formed in the kidneys from excess amino acids.
- Urea is formed in the liver from excess amino acids. В
- Abildoe C Urea is formed in the kidneys from excess fatty acids.
- D Urea is formed in the liver from excess fatty acids.

3. Nov/2022/Paper 21/No.23

Which substances are excreted from the human body?

- carbon dioxide 1
- 2 urea
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4. Nov/2022/Paper_23/No.23

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- В Urea is formed in the liver from excess amino acids.
- С Urea is formed in the kidneys from excess fatty acids.
- D Urea is formed in the liver from excess fatty acids.

5. Nov/2022/Paper_32/No.5

(a) Fig. 5.1 is a diagram of some of the organs involved in the production and release of urine.

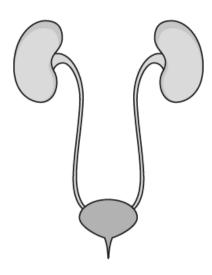


Fig. 5.1

Draw an X on Fig. 5.1 to identify the position of the bladder.

[1]

(b) A scientist recorded the volume of urine released by different species of mammal during a 24-hour period.

The scientist collected urine from five individuals of each species of mammal.

The highest and lowest volumes of urine released were recorded to give a range for each species of mammal.

Table 5.1 shows the results.

Table 5.1

species of mammal	range of volumes of urine released in 24 hours/dm ³
•• A	2.10 – 12.60
В	15.30 – 40.50
С	0.08 – 0.16
D	1.00 – 2.00
E	0.60 – 2.40

- (i) State the species of mammal that released the lowest volume of urine in Table 5.1.
- (ii) State the species of mammal that has the largest range shown in Table 5.1.

......[1]

(c)	Explain why the volume of urine produced in humans can vary throughout the day.		
		[3]	
(d)	Urine contains urea, excess water and excess ions.		
	The list shows some organs.		
	kidney liver ureter		
	urethra vagina		
	(i) State the name of the organ from the list that produces urea.		
		[1]	
	(ii) State the name of the organ from the list that excretes urea.		
		[1]	
(e)	State the name of the gas that is excreted through the lungs.		
		[1]	
	П	otal: 9	