

### Worksheet

## Topic: Irritability, Sensitivity and Coordination

### Sub-topic: Excretion

Date: March 25, 2020

Write your answers in the spaces provided.

**B5**

### Excretion

1 a) i) Distinguish between excretion and egestion.

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[2]

ii) Why is excretion important in living organisms?

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[2]

iii) Identify FOUR excretory products in plants.

1. \_\_\_\_\_ 2. \_\_\_\_\_  
3. \_\_\_\_\_ 4. \_\_\_\_\_

[4]

iv) Outline how plants excrete the products named in iii).

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[4]

v) Link the following excretory products in humans with the organs that excrete them.

bile pigments	skin	urea
salt	liver	heat
carbon dioxide	kidneys	water
	lungs	

[5]

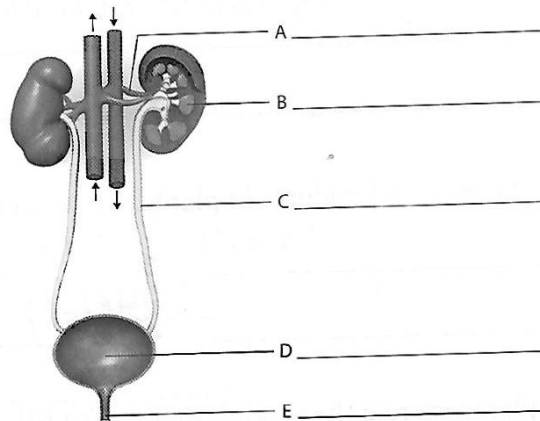
**B5**

**Excretion (cont.)**

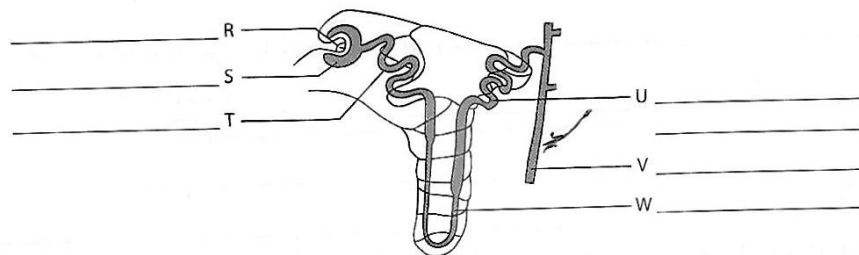
vi) From what does the liver produce urea? \_\_\_\_\_ [

vii) What is the name of the process by which the liver produces urea?  
\_\_\_\_\_ [

2 a) Label the following diagram of the human urinary system and its blood supply.



b) The diagram below shows a nephron and its blood supply.



i) Label structures R to W.

ii) Outline the processes taking place in EACH of the following structures.

R \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
T \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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W \_\_\_\_\_

\_\_\_\_\_ [6]

**iii) Name the processes occurring in R and T.**

Process in R  
\_\_\_\_\_

Process in T  
\_\_\_\_\_ [2]

**iv) What fluid would be found travelling through V? Describe its composition.**  
\_\_\_\_\_ [2]

**3 a) i) What is osmoregulation and why is it important in living organisms?**  
\_\_\_\_\_  
\_\_\_\_\_ [2]

**ii) Osmoregulation is an example of homeostasis. What is meant by the term 'homeostasis'?**  
\_\_\_\_\_ [1]

**iii) Complete the following table so that it contains THREE ways in which water can be gained by the human body and THREE ways in which water can be lost.**

Water gain	Water loss

[6]

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