

Revision Sheet

IGCSE Biology · Unit 9 Transport in animals

15 vocabulary items · 22 marks of exam questions (6 questions)

Part 1 · Vocabulary review (15 items). The terms this unit is examined on most. Mark it yourself from the answer key.

Section A · Chinese to English

Write the English word.

1.

[1]
2.

[1]
3.

[1]
4.

[1]
5.

[1]
6.

[1]
7.

[1]
8.

[1]
9.

[1]
10.

[1]
11.

[1]
12.

[1]
13.

[1]
14.

[1]
15.

[1]

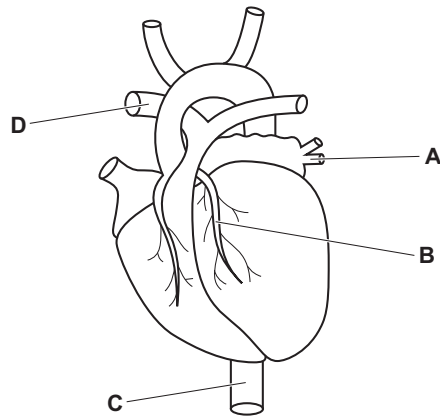
Part 2 · Exam questions (22 marks, 6 questions) begins on the next page. They are ordered easy to difficult and none of them has been set before.

16 What is an advantage of having a double circulatory system?

- ☐ **A** It uses less energy because blood flows through the heart only once in each circuit around the body.
- B** Concentration gradients of solutes and gases are kept low.
- C** Deoxygenated and oxygenated blood are separated to allow a high rate of oxygen supply to the tissues.
- D** It maintains high-pressure blood flow to the lungs and low-pressure blood flow to the body.

17 The diagram shows the external structure of the human heart.

- ☐ Which part is blocked in coronary heart disease?



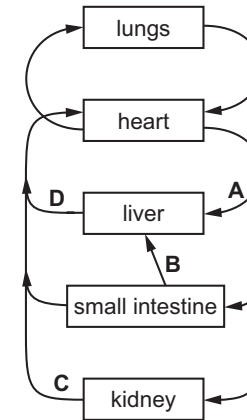
18 The diagrams show four components of blood.

- ☐ Which component produces antibodies?



19 The diagram shows part of the human circulatory system.

- ☐ Which structure is the hepatic vein?



20 The human circulatory system contains blood vessels.

(a) Fig. 1.1 shows some names of blood vessels and organs.

The boxes on the left show the names of some blood vessels that deliver blood to organs.

The boxes on the right show the names of some organs that receive blood.

Draw straight lines from each blood vessel to the organ that it delivers blood to.

Draw **four** straight lines.

**blood vessel that
delivers blood**

**organ receiving
blood**

pulmonary artery

heart

pulmonary vein

kidney

renal artery

lungs

vena cava

Fig. 1.1

[4]

(b) Table 1.1 shows three types of blood vessel, the thickness of their walls and whether they contain valves.

Complete the descriptions of the blood vessels in Table 1.1.

Table 1.1

type of blood vessel	thickness of wall	presence of valves
artery	thick	no
capillary		
vein		

[4]

[Total: 8]

21 Fig. 3.1 is a photomicrograph of a sample of human blood.

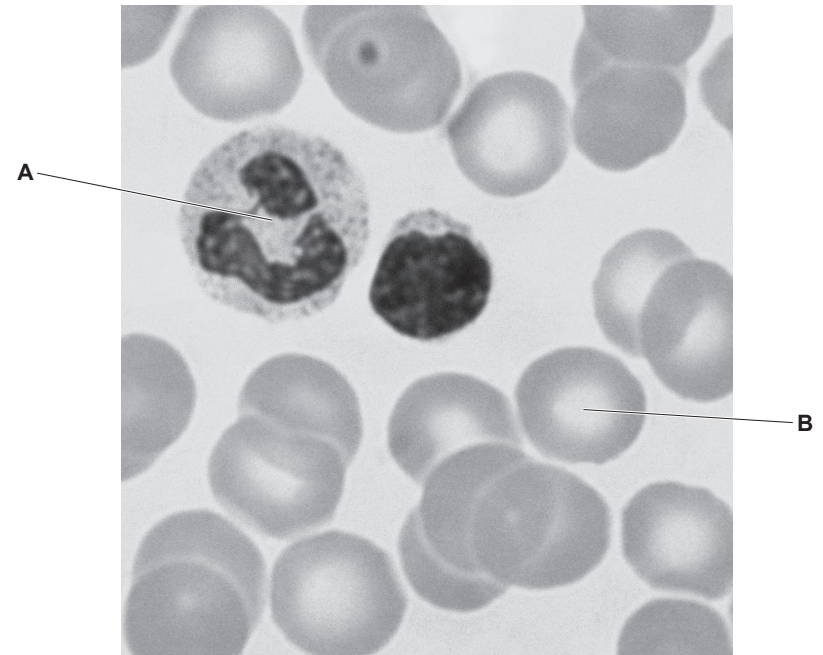


Fig. 3.1

(a) Identify and describe the functions of the cells labelled **A** and **B** in Fig. 3.1.

[4]

[4]

(b) Describe how platelets in the blood prevent disease.

.....

.....

.....

.....

..... [2]

(c) Blood plasma transports many substances including excretory products and hormones.

(i) Circle the names of **two** excretory products in humans.

amino acids	cellulose	carbon dioxide	glucose
lipase	oxygen	urea	

[2]

(ii) State the names of **two** hormones that are produced by the reproductive organs.

1

2 [2]

[Total: 10]