

Revision Sheet

IGCSE Biology · Unit 2 Organisation of the organism

12 vocabulary items · 19 marks of exam questions (4 questions)

Part 1 · Vocabulary review (12 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.	<div></div>	[1]
2.	<div></div>	[1]
3.	<div></div>	[1]
4.	<div></div>	[1]
5.	<div></div>	[1]
6.	<div></div>	[1]
7.	<div></div>	[1]
8.	<div></div>	[1]
9.	<div></div>	[1]
10.	<div></div>	[1]
11.	<div></div>	[1]
12.	<div></div>	[1]

Part 2 · Exam questions (19 marks, 4 questions) begins on the next page. They are ordered easy to difficult and none of them has been set before.

13 A student draws a red blood cell.

☐ The diameter of the red blood cell they draw is 20 mm.

The actual diameter of the red blood cell is 0.008 mm.

What is the magnification of the student's drawing?

- A** $\times 0.0004$ **B** $\times 0.16$ **C** $\times 250$ **D** $\times 2500$

14 Some components of cells are listed.

- ☐
- 1 cell membrane
 - 2 cell wall
 - 3 chloroplasts
 - 4 cytoplasm

Which cell components are present in plant cells but absent in animal cells?

- A** 1 and 2 **B** 1 and 4 **C** 2 and 3 **D** 3 and 4

15 Fig. 1.1 is a photomicrograph of an animal cell.

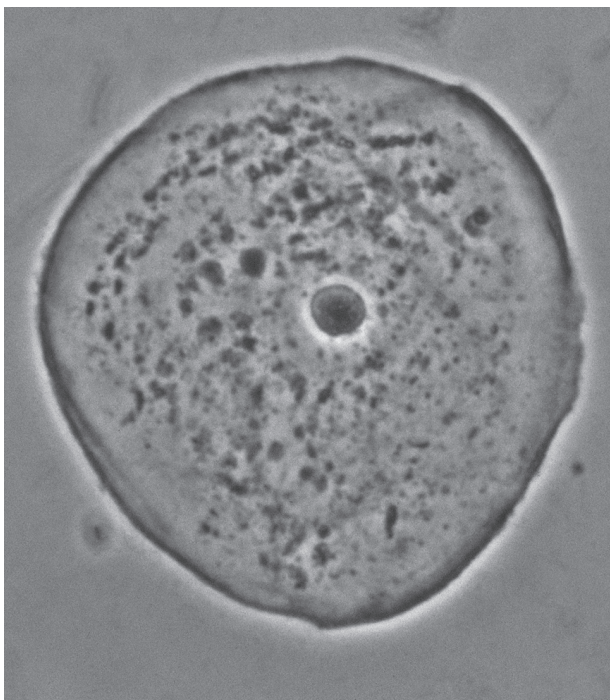


Fig. 1.1

- (a)** Identify the structure in the cell that contains the genetic material.

Label this structure on Fig. 1.1 by stating its name in the space provided **and** by drawing a label line to show its location in the cell. [2]

- (b)** The actual size of the animal cell is much smaller than it appears in the image in Fig. 1.1.

State the piece of laboratory equipment that is used to view animal cells.

..... [1]

- (c)** Plants contain additional cell structures when compared to animal cells.

State **two** structures of plant cells that are **not** present in the cell shown in Fig. 1.1.

1

2

[2]

- (d) Fig. 1.2 is a diagram representing the concentration of oxygen inside and outside an animal cell.

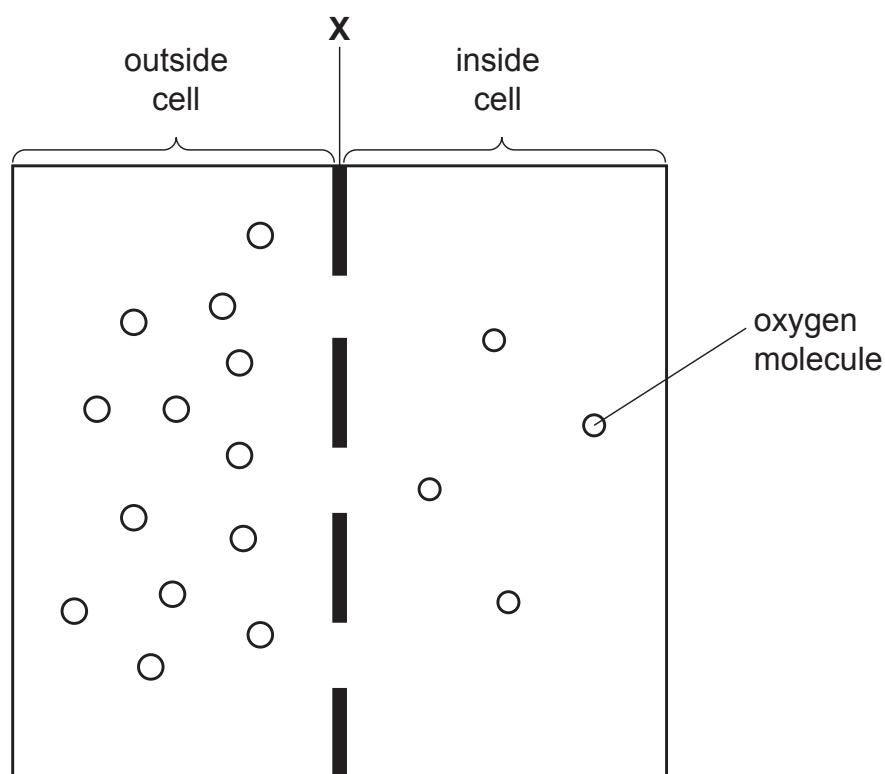


Fig. 1.2

- (i) State the name of the part of the cell that **X** represents.
..... [1]
- (ii) Draw an arrow **on Fig. 1.2** to show the net direction of movement of the oxygen molecules.
[1]
- (iii) State the name of the process represented by the arrow you have drawn on Fig. 1.2.
..... [1]

[Total: 8]

16 (a) Fig. 2.1 is a labelled diagram of an animal cell.

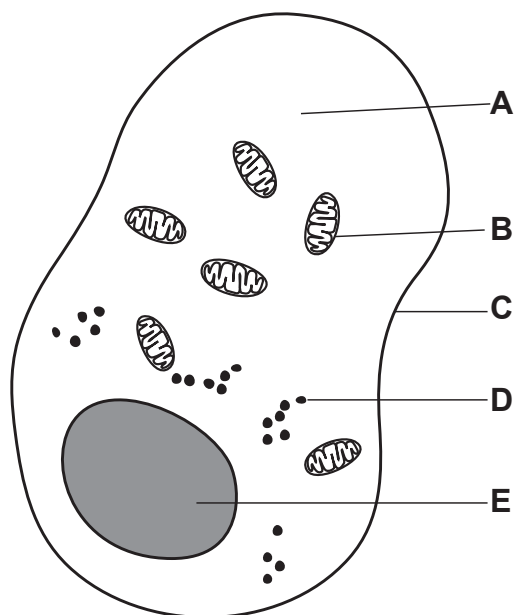


Fig. 2.1

(i) The boxes on the left show the functions of some of the structures shown in Fig. 2.1.

The boxes on the right show the letters of the structures labelled in Fig. 2.1.

Draw lines to link each function to the correct letter.

Draw **four** lines.

functions

contains and supports other cell structures

controls the activities of the cell

controls which substances enter or leave the cell

protein synthesis

letter in Fig. 2.1

A

B

C

D

E

[4]

(ii) State **two** letters shown in Fig. 2.1 that identify structures which are also found in bacterial cells.

..... and

[2]

(b) Respiration is a characteristic of living organisms.

State **three other** characteristics of all living organisms.

- 1
- 2
- 3 [3]

[Total: 9]