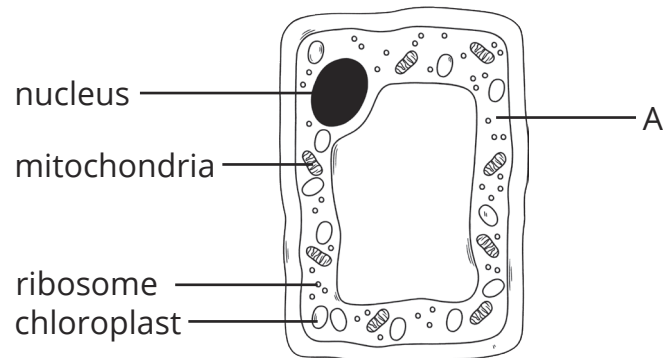


0 1

Figure 1 shows a plant cell.

Some parts of the cell have been labelled.

Figure 1

0 1 . 1

What is the name of part A?

Tick **one** box.

[1 mark]

- cell membrane ☐
- cell wall ☐
- cytoplasm ☐
- vacuole ☐

0 1 . 2

In which part of the plant would you find the cell in **Figure 1**?Tick **one** box.

[1 mark]

- leaf ☐
- petal ☐
- root ☐
- seeds ☐

0 1 . 3 Which three parts found in a plant cell are **not** present in animal cells?

Tick **one** box.

[1 mark]

cell membrane, chloroplasts, cytoplasm

☐

cell membrane, chloroplasts, vacuole

☐

cell wall, chloroplasts, cytoplasm

☐

cell wall, chloroplasts, vacuole

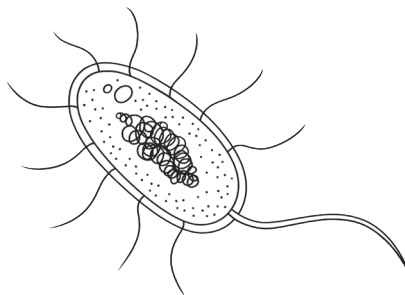
☐

0 1 . 4 Give one function of the nucleus.

[1 mark]

0 1 . 5 **Figure 2** shows a different type of cell.

Figure 2



Give **two** pieces of evidence that suggest the cell in **Figure 2** is a bacterial cell.

[2 marks]

1.

2.

0 2

Cardiac muscle is one type of muscle found in the body.

0 2

. 1

What is the correct order of these structures from the simplest level of organisation to the most complex?

Tick **one** box.

[1 mark]

cardiac muscle → muscle cell → heart → circulatory system

☐

cardiac muscle → muscle cell → circulatory system → heart

☐

muscle cell → cardiac muscle → heart → circulatory system

☐

muscle cell → cardiac muscle → circulatory system → heart

☐

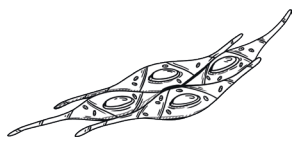
0 2

. 2

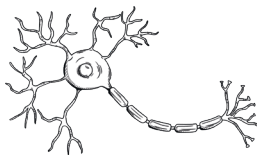
Which diagram shows a muscle cell?

Tick **one** box.

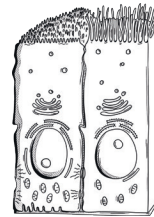
[1 mark]



A

☐


B

☐


C

☐


D

☐

0 2

. 3

Explain why muscles cells contain many mitochondria.

[2 marks]

0 2

. 4

Muscles require a lot of oxygen when they are in use.

Name the type of cell that carries oxygen to the muscles.

[1 mark]

0	2	.	5
---	---	---	---

Skeletal muscles can work in pairs to move parts of the body.

These pairs of muscles are called antagonistic muscles.

Explain how antagonistic muscles work together.

[2 marks]

7

0	3
---	---

The long bones of the skeleton contain a soft tissue called bone marrow.
Bone marrow produces blood cells.

0	3	.	1
---	---	---	---

Explain how a pathologist could use a light microscope to observe blood cells.
[6 marks]

0	3	.	2
---	---	---	---

Give **two** other functions of the skeleton.

[2 marks]

1.

2.

Figure 3



0	3	.	4
---	---	---	---

Explain the role of these structures in the joint.

[illegible]