

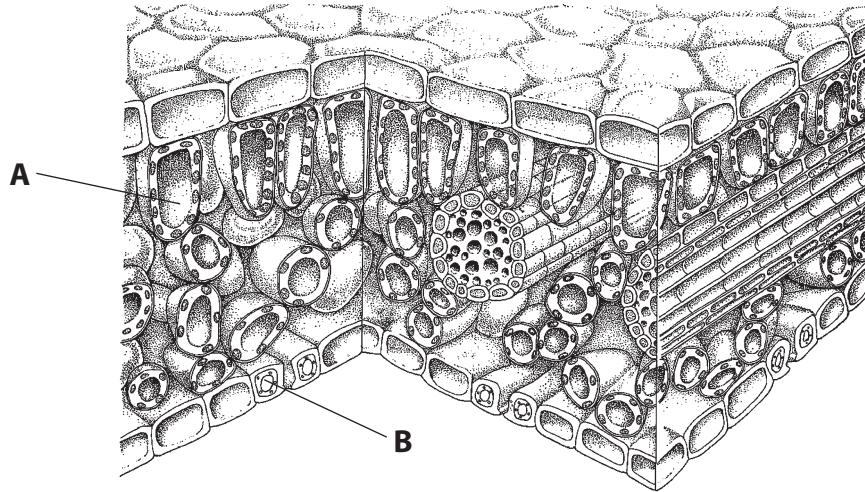
1 The immune system responds to infection using white blood cells. A phagocyte is one type of white blood cell.

(a) (i) Draw and label a phagocyte. (3)

(ii) Give one way that the structure of this cell differs from a red blood cell. (1)

(b) Describe how white blood cells are used by the body to defend against infection. (5)

2 (a) The diagram shows a section through a leaf.



(i) Name the structures labelled **A** and **B**.

(2)

**A** .....

**B** .....

(ii) Give the function of the waxy cuticle.

(1)

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(iii) Some of the leaf cells carry out photosynthesis. Write a word equation for this process.

(2)

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(iv) Plants, like all living organisms, need to excrete waste products.  
Explain how the excretory product of photosynthesis is removed from the leaf.

(2)

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(b) Some plants lose their leaves in cooler months. This can be described as an excretory mechanism. Suggest **two** other reasons why some plants lose their leaves in cooler months.

(2)

1 .....

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2 .....

.....

(c) Name **one** excretory organ in humans and name the substance it excretes.

(2)

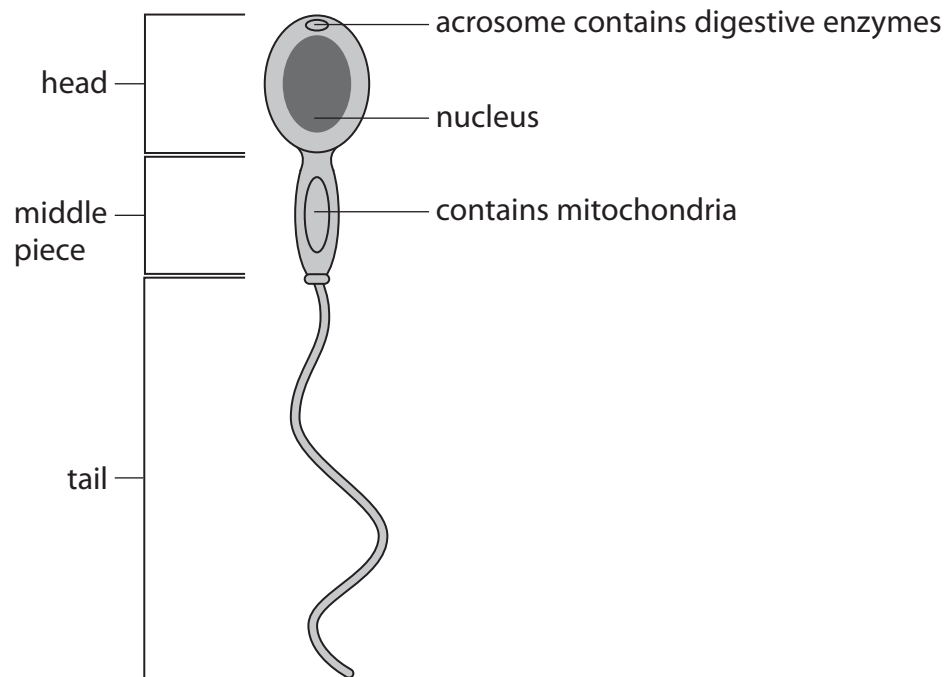
organ .....

substance .....

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(Total for Question = 11 marks)

- 1 (a) The diagram shows a human sperm, which is a specialised cell.



Suggest the function of each of the sections of the sperm cell.

(i) head

(2)

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(ii) middle piece

(2)

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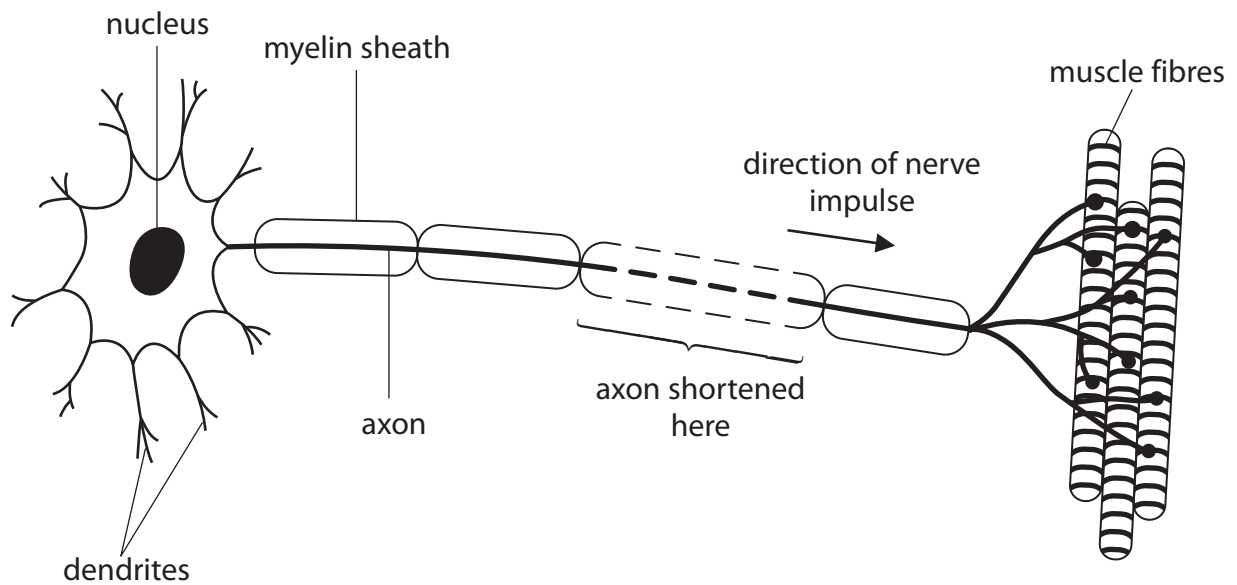
(iii) tail

(1)

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(b) The diagram shows a motor neurone, which is another specialised human cell.



Suggest two ways in which the structure of the motor neurone is adapted for its function.

(2)

1 .....

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2 .....

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(Total for Question = 7 marks)