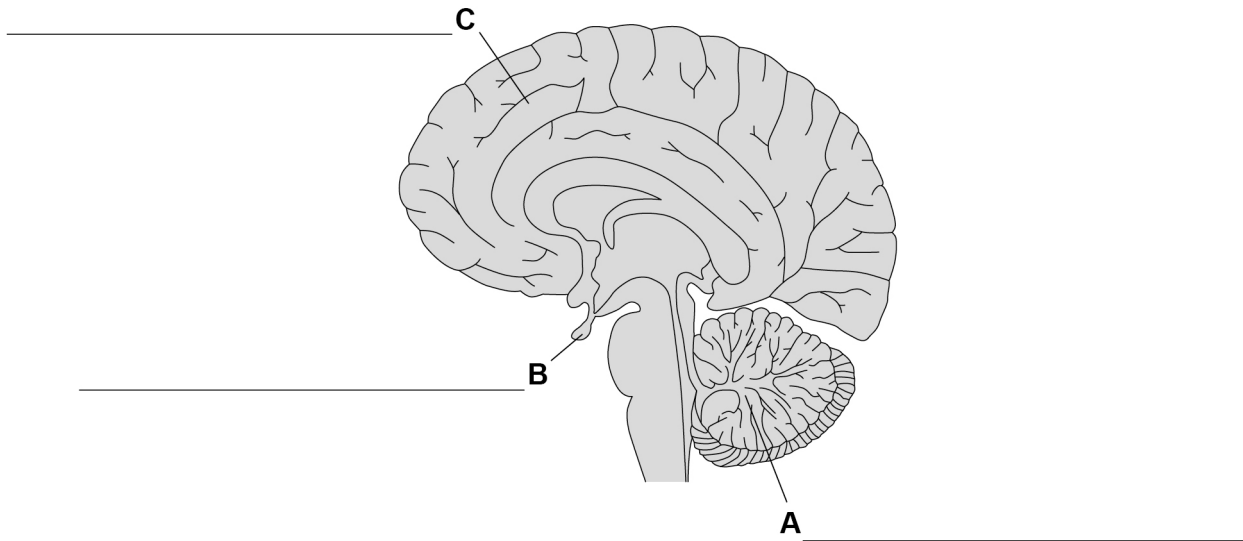


0 5

Figure 6 shows the brain.

Figure 6



0 5 . 1

Label **A**, **B** and **C** on **Figure 6**.

[3 marks]

Choose answers from the box.

cerebellum	cerebral cortex	medulla	pituitary gland
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0 5 . 2

Which part of the brain controls balance when riding a bicycle?

[1 mark]

Tick (✓) **one** box.

- Cerebellum
- Medulla
- Pituitary gland

Question 5 continues on the next page

Turn over ►



0 5 . 3 The ears send information about sound to the brain.

Which word describes the brain?

[1 mark]

Tick (✓) **one** box.

Coordinator

Effector

Receptor

Stimulus

0 5 . 4 What type of cell carries impulses from the ears to the brain?

[1 mark]

0 5 . 5 Human eyes detect light.

Which part of the eye has cells that detect light?

[1 mark]

Tick (✓) **one** box.

Iris

Lens

Retina



0 5 . 6

The eyes of some birds have specialised cells to detect ultraviolet (UV) light.

Some fruits reflect UV light.

Explain why it is an advantage for birds to be able to detect UV light.

[2 marks]

Question 5 continues on the next page

Turn over ►

Figure 7 shows a student reading a book.

Figure 7



There are trees on the far side of the field.

The student looks at the trees instead of looking at the book.

0 5 . 7

What process occurs in the eye when the student looks at the trees instead of looking at the book?

[1 mark]

Tick (✓) **one** box.

Accommodation

Magnification

Reflection



0 5 . 8 What change happens in the student's eyes when they look up at the trees?

[1 mark]

Tick (✓) **one** box.

Light rays are refracted less

More light is reflected

The optic nerves move

0 5 . 9 The student **cannot** see the trees in focus.

Name the common defect of the eye which causes distant objects to appear out of focus.

[1 mark]

12

Turn over for the next question

Turn over ►



Question	Answers	Extra information	Mark	AO / Spec. Ref.
05.1	(A) cerebellum		1	AO1 4.5.2.2
	(B) pituitary gland		1	AO1 4.5.3.1
	(C) cerebral cortex		1	AO1 4.5.2.2
05.2	cerebellum		1	AO1 4.5.2.2
05.3	coordinator		1	AO1 4.5.1 4.5.2.1
05.4	neurone	allow nerve (cell) ignore names of neurone	1	AO1 4.5.2.1
05.5	retina		1	AO1 4.5.2.3
05.6	can see fruit / food	allow can find fruit / food	1	AO2 4.5.2.3
	(so) get more food		1	4.7.1.4
05.7	accommodation		1	AO1 4.5.2.3
05.8	light rays are refracted less		1	AO1 4.5.2.3
05.9	any one from: • myopia • short-sightedness	allow near-sightedness	1	AO1 4.5.2.3
Total			12	