

GCSE Biology A (Gateway)

J247/01 B1-B3 and B7 Foundation (Foundation Tier)

Question Set 3

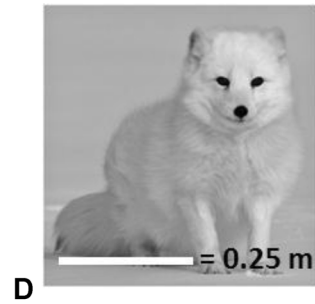
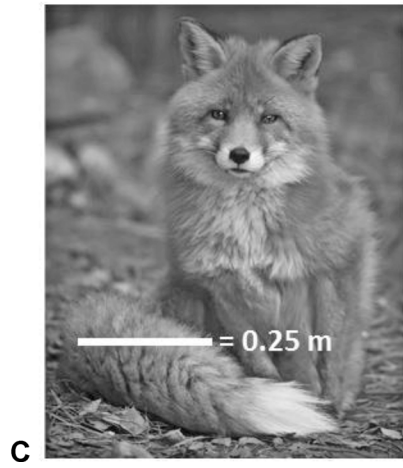
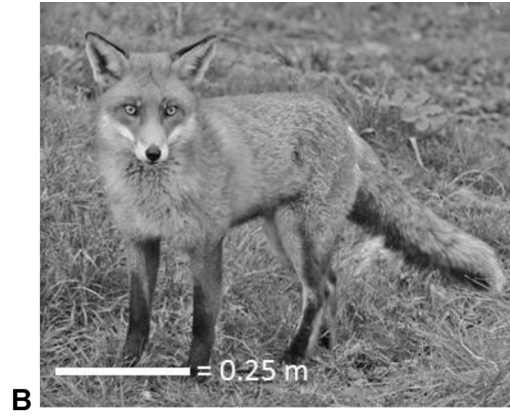
Multiple Choice Questions

B3: Organism Level Systems

1

The pictures show four foxes.

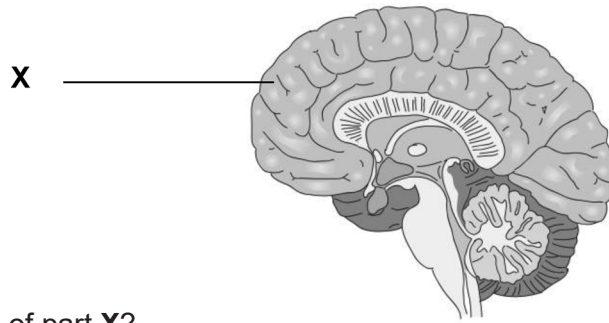
Which fox has the largest surface area : volume ratio?



Your answer

[1]

2 The diagram shows the brain.



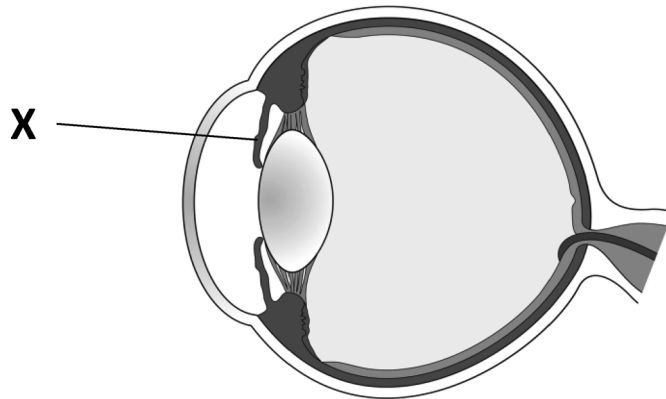
What is the name of part X?

- A Cerebellum
- B Cerebrum
- C Hypothalamus
- D Medulla

Your answer

[1]

3 The diagram shows the eye.



What is the name of part X?

- A Cornea
- B Iris
- C Lens
- D Pupil

Your answer

[1]

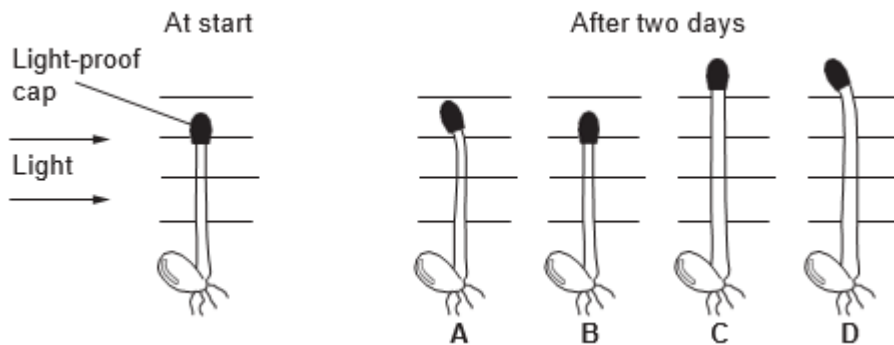
4 What type of reactions are photosynthesis and respiration?

	photosynthesis	respiration
A	endothermic	endothermic
B	endothermic	exothermic
C	exothermic	endothermic
D	exothermic	exothermic

Your answer

[1]

5 Seedlings were grown with a light-proof cap over the tip. The seedlings had light from one direction only.



Which diagram shows the correct growth of the seedling after two days in these conditions?

Your answer

[1]

6 Which of these can be used to treat type 2 diabetes but **not** type 1?

- A Diet and exercise
- B Exercise only
- C Insulin and diet
- D Insulin, diet and exercise

Your answer

[1]

7 Plant roots respond to gravity by growing downwards.

What is this response called?

- A Negative gravitropism
- B Negative phototropism
- C Positive gravitropism
- D Positive phototropism

Your answer

[1]

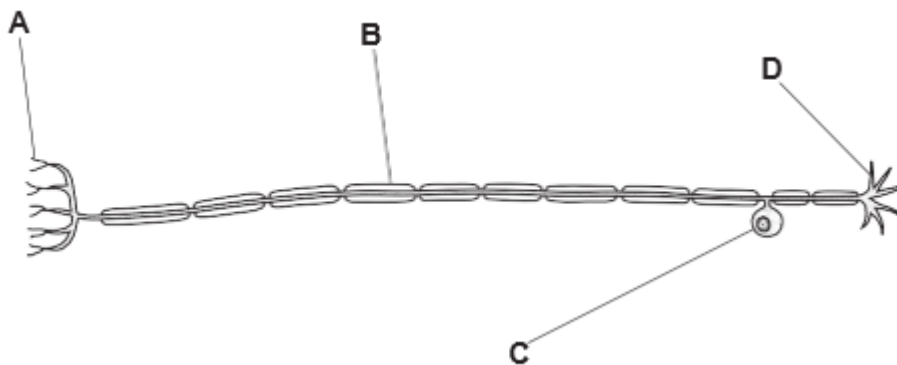
8 Which part of the eye does not function correctly in colour blindness?

- A Cornea
- B Iris
- C Lens
- D Retina

Your answer

[1]

9 Which label is pointing to the myelin sheath in a motor neurone?



Your answer

[1]

10 What is the name of the gap between two neurones?

- A Axon
- B Dendrite
- C Lumen
- D Synapse

Your answer

[1]

11 Light travels through different parts to reach the back of the eye.

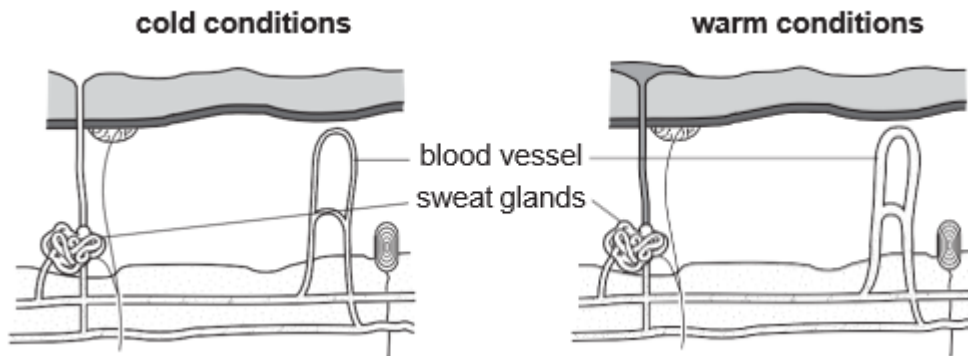
Which structure does light pass through first when it enters the eye?

- A Cornea
- B Lens
- C Pupil
- D Retina

Your answer

[1]

12 The diagrams show changes in the skin as a person moves from cold to warm conditions.



Which processes happen in the skin as a result of the change from cold to warm conditions?

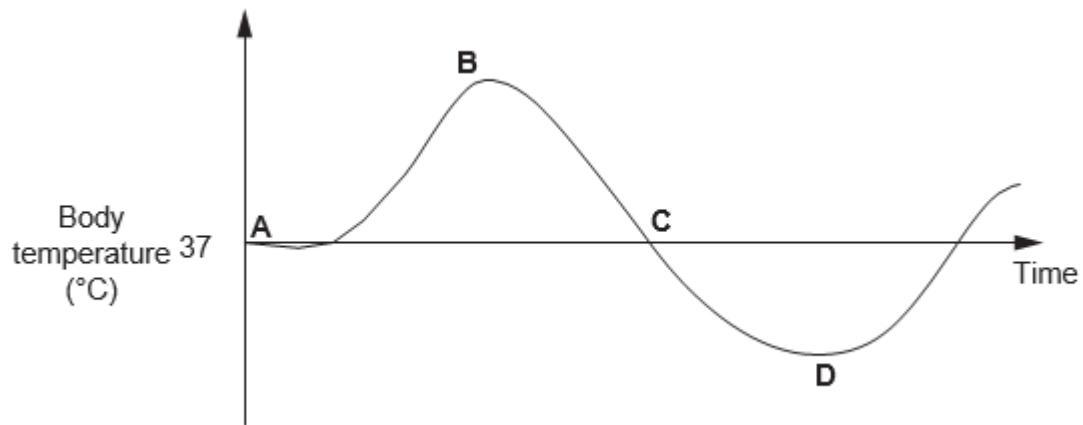
- A Blood vessels widen and sweat is released.
- B Blood vessels narrow and sweat is released.
- C Blood vessels widen and sweat production stops.
- D Blood vessels narrow and sweat production stops.

Your answer

[1]

13 The graph shows changes to body temperature during temperature regulation.

Which letter on the graph shows when shivering is occurring?



Your answer

[1]

14 Which part of the brain controls the heartbeat and breathing?

- A Cerebrum
- B Hypothalamus
- C Medulla
- D Pituitary

Your answer

[1]

Total Marks for Question Set 3: 14

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