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Answers

Ancient DNA

Looking into plant extinction

Answers to practice exam questions on page 18

Annabelle de Vries

- 1 Any three of the following
 - (Find) base sequence of mRNA
 - (Find) amino acid sequence of encoded proteins
 - (Find) frequency of measurable or observable features
 - (Find) number of polymorphic loci
- 2 Degradation of DNA involves hydrolytic enzymes / hydrolysis of DNA controlled by enzymes.
 - Enzyme-controlled reactions occur in solution, so free water needed.
 - Enzyme-controlled reaction occur (very) slowly / do not occur at low/freezing temperatures.





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Body shape evolution: Adaptation improves survival chances in vertebrates

Answers to practice exam questions on page 38

Alice Maher

1 Any three of the following.

Titanosaur Is quadrupedal, which balances body weight evenly.

Titanosaur has a large torso and short spine that reduces stress due to large size.

Human is bipedal, short torso increases stability.

Lumbar and thoracic curves in human spine bring centre of gravity over the feet.

2 The have the same function – flight.

But do not have a similar anatomy/are not developed from the same structures.

Are the result of convergent evolution/are not evolved from a common ancestor.