### Chapter 14

# Answers

#### QUICK-CHECK questions

- 1 Identify the following as true or false.
  - a Lamarck proposed that changes acquired during the lifetime of an organism could be passed to the next generation.

True: Lamarck proposed that any changes, such as enlargement of an organ, acquired during the lifetime of an organism could be transmitted to its offspring.

b De Maillet's view of evolution involved sudden changes in the structures of an organism.

True: His account of the origin of birds has them arising from sudden changes in fish structures, such as fins, into structures characteristic of birds, such as wings.

c Chambers proposed a cause for evolution that could be tested by observation and experimentation.

False: Chambers' view of evolution was that it was due to some unknown law. Explanations of this nature fall outside science since they cannot be tested by observation or experimentation.

2 Identify an important observation made by Darwin during his time in Australia.

While in Australia, Darwin saw that niches that were occupied by one species in the northern hemisphere were occupied by very different species in the southern hemisphere. Darwin wrote that he 'reflected on the strange character of the animals in this country [Australia] as compared with the rest of the world'. So, this caused him to wonder about questions such as: Why are there platypus in creeks in Australia rather than water rats in streams as in England? Why are there kangaroos on grasslands in Australia rather than wildebeest as in southern Africa?

3 Identify two features of the Darwin-Wallace theory of evolution by natural selection that distinguished this theory from most other views about evolution.

The Darwin-Wallace theory of evolution can be distinguished from other views about evolution in that:

- it identified a clearly defined mechanism for evolution, namely natural selection
- the mechanism proposed could be tested by observation and by experimentation.
- 4 Identify two methods used in the nineteenth century to estimate Earth's age.

In the nineteenth century, the age of the Earth was estimated by various means including:

- estimation of the rate of cooling of the Earth from its initial molten state (Lord Kelvin)
- extrapolation of the salt content of oceans derived from river waters (Joly).

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**VM** Jensen

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