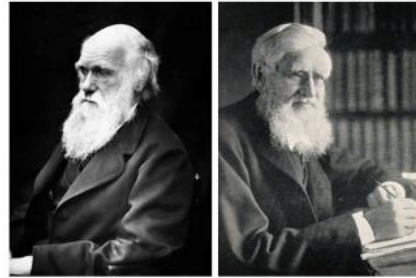


## EVOLUTION

17. Answer any **two** of (a), (b), (c), (d).

(30, 30)

- (a) The photographs are of the two scientists credited with the co-development of the theory of evolution by natural selection. One of the points put forward by the theory of natural selection is:



**There is variation among members of a species and these variations are inherited.**

Variations are differences among members of the same species. Mutations and meiosis contribute to these variations.

- (i) Name the **two** scientists credited with developing the theory of evolution by natural selection.
  - (ii) Explain the **three** underlined terms.
  - (iii) Explain how meiosis contributes to variation.
  - (iv) Describe **three** points put forward in the theory of natural selection, other than the one described in the passage above.
  - (v) Give **one** piece of evidence that supports the theory of natural selection.
- (b) The theory of evolution by natural selection was developed by two famous biologists.
- (i) Explain the underlined terms.
  - (ii) Name **both** biologists who developed the theory of evolution by natural selection.
- Genetic engineering is also an important area of biology.
- (iii) Explain the term *genetic engineering*.
  - (iv) Give **one** example of genetic engineering involving a plant **and one** example involving an animal.