

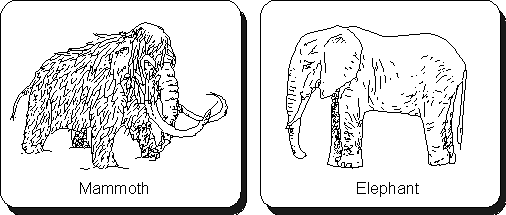
In the population there is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, some giraffes have \_\_\_\_\_\_\_\_\_\_\_\_ necks, while others have \_\_\_\_\_\_\_\_\_\_ necks.

Those with \_\_\_\_\_\_\_\_\_\_\_\_\_necks are able to reach the food and able to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ more. Short necked individuals \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and are unable to pass on their \_\_\_\_\_\_\_\_\_\_\_.

Over time, the gene for \_\_\_\_\_\_\_\_\_\_\_ neck will increase in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, resulting in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Natural selection and survival of the fittest**

The drawings below show a mammoth, an extinct relation of the elephant which lived in arctic regions, and a modern elephant which lives in tropical areas.



The mammoth, which was very hairy, and the elephant, are both thought to have evolved from a scantily haired ancestor.  Explain, as fully as you can, how the **mammoth** evolved from the common ancestor.

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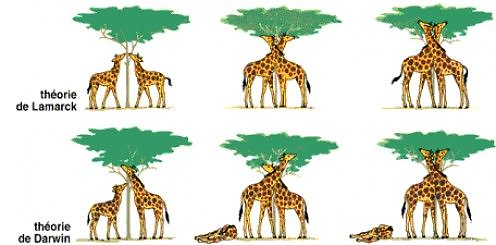
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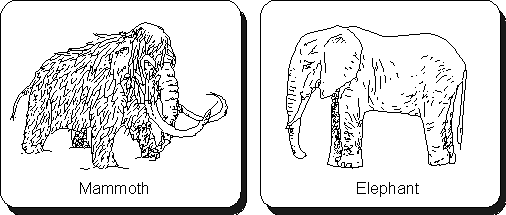
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**(Total 5 marks)**



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**(Total 5 marks)**