

6 Sri Lanka is an island with about 125 species of mammals.

(a) In 1993, the number of different species of mammals in Sri Lanka was estimated to be 90.

Suggest **one** reason for this increase.

(1)

(b) The photograph below shows a civet.



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Magnification  $\times 0.1$

*Paradoxurus* is a genus of civets found in Sri Lanka.

All the civets found in Sri Lanka were thought to be one species, *Paradoxurus aureus*.

Phylogenetic analysis and other studies have shown that these civets belong to three different species.

(i) Explain how the results of molecular phylogeny could show that there are three different species of civets.

(2)