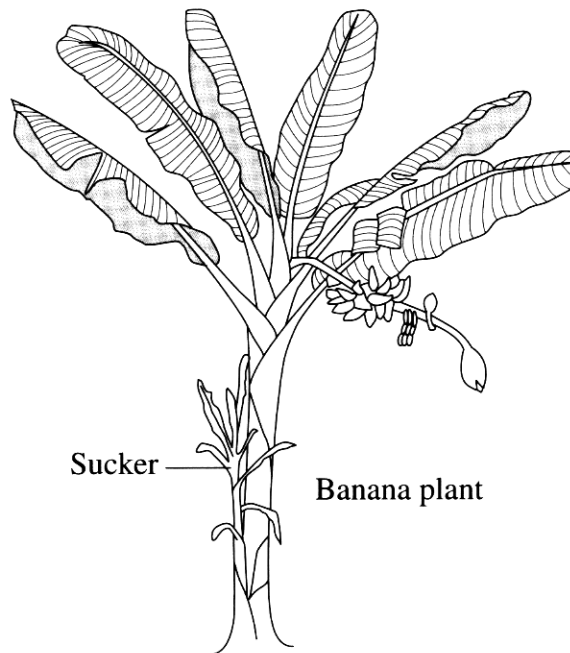


Marks

Question 24 (4 marks)

Traditionally, banana plants in Australia have been propagated asexually by cutting out and planting suckers from the adult plant.

4



There is a growing trend to produce disease-free plants in laboratories through a process of cloning from disease-free tissues from existing plants.

Assess the potential impact of this cloning process on the genetic diversity of banana plants in Australia.

An abundance of banana plants may become apparent if they are being produced disease-free in laboratories. Banana plants will have no genetic diversity as cloning them will create them as being all the same - no differences