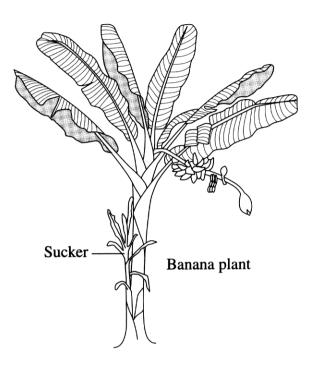
## Marks

## Question 24 (4 marks)

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



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.

on The genetic diversity of banana plants
in Australia will decrease as a reselt
of cloning. Cloning basically copies the
plants ONA au and produces the exactly the
same plant. Although the plant would be
les susceptible te disease, the rest of
the banana plant population would
become extinct. This leads to a decrease
in variation within a species.