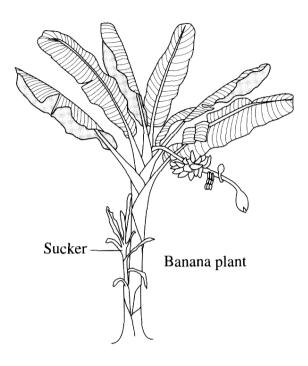
Marks

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.

This will reduce genetic durisity of the banana plan	tj
within Australia is of If all cloned lanana plants	
are the only ones used, then if a new dieses	e
is introduced, it could whipe out all the trees.	
However through asexual reproduction, it allows	
for biological errors to occur and eventually	
create a more resistant species, as opposed	
to the cloned banana plants, which if	
display uny variation would be destroyed	
	••