

2010 HIGHER SCHOOL CERTIFICATE EXAMINATION  
Biology

Section I – Part B (continued)

Question 23 (7 marks)

- (a) Use an example to explain why hybridisation within a species is carried out. 2

Hybridisation such as between donkey  
and horse to create a mule is carried  
out as it takes ~~both~~ <sup>the best</sup> ~~necessary~~ qualities out  
of each to create an animal fit for the purpose  
of which it was made in this case stronger  
animal prone to less disease.

- (b) Use an example of a named transgenic species to discuss the social and environmental impact of this technology. 5

The social and environmental impact of  
this technology is that there will be less  
bio diversity throughout the species  
and therefore would not survive a vast  
change in the environment. However it  
can also create a species that would/could  
~~not~~ be resistant to such things  
as pesticides and therefore would do  
more harm than good socially and  
environmentally such as the transgenic  
species of some flies.