

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 within a species is carried out to make a species live longer or not to go 'off' as quickly. Examples of hybridisation is bicorn and Artificial Insulin.

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

The social impact of artificial insulin is that it helps people who cannot produce their own insulin (diabetes) to inject themselves with the artificial insulin to control their disease better. The artificial insulin can last longer than 'actual' insulin which means it can help more people.

Artificial insulin can impact on the environment as it can harm the animals that the insulin is being taken out of which can also disrupt the food chain which may kill some animals.