

Question Number	Answer	Additional guidance	Mark
8(a)	<p>An explanation that includes three of the following points:</p> <ul style="list-style-type: none"> <input type="checkbox"/> (habitat loss) due to {deforestation / urbanisation / water drainage} (1) <input type="checkbox"/> reduction in food due to {habitat loss / competition with other species / pollution} (1) <input type="checkbox"/> (reduction in population) due to {hunting / fewer mates / disease} (1) <input type="checkbox"/> introduction of new predator (by humans) (1) 	<p>accept pollution of habitat e.g. water pollution, pesticides</p> <p>accept outcompeted by other species</p>	(3)

Question Number	Answer	Additional guidance	Mark
8(b)	<p>An explanation that includes four of the following points:</p> <ul style="list-style-type: none"> • (genetic) mutation occurred (1) • (new) allele (coding for protein) involved in fungal resistance (1) • frogs resistant to the fungus {survive and breed / have selective advantage} (1) • pass this (resistant) allele onto the offspring (1) • increase in resistant allele frequency (1) 	<p>ignore gene</p> <p>ignore immunity</p> <p>Accept clear statement that fungus is acting as selection pressure</p>	(4)

Question Number	Answer	Additional guidance	Mark
8(c)	<p>A description that includes the following points:</p> <ul style="list-style-type: none"> • {analyse the DNA of (Sehuencas water) frogs / determine the number of heterozygotes} / determine the population size of (Bolivian Sehuencas water) frogs (1) • divide the number of heterozygotes by the total number of (Sehuencas water) frogs (in the Bolivia population) (1) 		(2)