

Question Number	Answer	Additional guidance	Mark
7(a)	<ul style="list-style-type: none"> (species richness) is the number of (different) species in a habitat 	ACCEPT number of (different) species in an {area/ecosystem}	(1)

Question Number	Answer	Additional guidance	Mark
7(b)	<p>An explanation that makes reference to two of the following points:</p> <ul style="list-style-type: none"> extends storage time of the seeds (1) (because drying) prevents germination of seeds / keeps seeds dormant (1) (because removal of water) slows {enzyme activity / metabolic reactions (in seed cells)} (1) 	<p>ACCEPT {prevents/reduces} microbial growth / reduces decomposition / prolongs life of seed</p> <p>ACCEPT reduces germination ignore so seeds don't grow unqualified</p> <p>ACCEPT (therefore) enzymes are not activated ACCEPT prevents destruction of cells due to ice formation ignore reduces freezing effect</p>	(2)

Question Number	Answer	Additional guidance	Mark
7(c)(i)	<ul style="list-style-type: none"> heterozygosity index = no of heterozygotes ÷ number of individuals (in the population/species) 		(1)

Question Number	Answer	Additional guidance	Mark
7(c)(ii)	83		(1)