

Question Number	Answer	Mark
1(a)	A ;	(1)

Question Number	Answer	Mark
*1(b) QWC	<p>(QWC - Spelling of technical terms must be correct and the answer must be organised in a logical sequence)</p> <ol style="list-style-type: none"> 1. idea of <i>geographical isolation</i> e.g. <i>physical barrier</i> between Corsican and mainland birds / <i>allopatric speciation</i> ; 2. idea that there are different <i>selection pressures</i> (between Corsica and the mainland) ; 3. an example of selection pressure e.g. food source, different habitats ; 4. idea that <i>mutations</i> occurred ; 5. Idea that this results in <i>adaptation</i> to the conditions ; 6. these {<i>alleles /genes</i>} passed on (to <i>offspring</i>); 7. idea of change in <i>gene pool</i> e.g. increasing <i>frequency</i> of (these) <i>alleles</i>, changes in <i>gene pool</i> ; 8. reference to <i>reproductive isolation</i> (of Corsican nuthatches from mainland nuthatches) ; 9. idea that birds on mainland could live in all regions as there is no restriction on <i>gene flow</i> ; 	(5)

Question Number	Answer	Mark
1(c)(i)	<p>ACCEPT the converse in the context of <i>S. europaea</i>, if clearly expressed</p> <ol style="list-style-type: none"> reference to <i>S. whiteheadi</i> adapted to {colder / mountainous} regions ; (if climate warms) {food supply / pine seeds / invertebrates} less available ; idea of {small population / only 2500 pairs} (of <i>S. whiteheadi</i>) ; idea of limited {gene pool / genetic diversity / variety of alleles} ; idea that all the <i>S. whiteheadi</i> will be adversely affected ; idea that the <i>S. whiteheadi</i> cannot fly to other regions ; 	(3)

Question Number	Answer	Mark
1(c)(ii)	<ol style="list-style-type: none"> idea that <i>S. whiteheadi</i> have a variety of food sources e.g. can change their feeding habits, eat seeds and invertebrates} ; idea that {more / different} {invertebrates / seeds / food / eq} might become available ; idea that they have another allele that gives a survival advantage ; idea that they could migrate (NOT south, somewhere warmer) ; 	(2)

Question Number	Answer	Mark
1(d)	<ol style="list-style-type: none">1. idea of captive-breeding programmes ;2. reference to {conserve / preserve / eq} {alleles / genes / gene pools} ;3. reference to {re-introduction / releasing of <i>S. whiteheadi</i> into suitable habitats} ;	(2)