

Question Number	Question	Mark
6.(a)	State what is meant by the term species richness .	
	Answer	
	The number of (different) <u>species</u> in a {habitat / environment / ecosystem/eq};	1

Question Number	Question	Mark
6.(b)	Compare the species richness shown by the survey for the vegetation in the roadside verges with that of the hedgerows over this study period.	
	Answer	
	Award one mark for each of the following points in context to a maximum of three marks.	3
	<ol style="list-style-type: none"> 1. both have decreased; 2. decrease in roadside verges greater than in hedgerows; 3. {percentage / proportional} decrease greater in roadside verges greater than in hedgerows; 4. roadside verges greater species richness in 1990 and in 1998; 5. correct manipulation of figures to quantify any comparison; 	

Question Number	Question	Mark
6.(c)	Other information would be needed, in addition to species richness, to show changes in the biodiversity of the vegetation in the two types of habitat. Give an explanation for this.	
	Answer	
	Award one mark for each of the following points in context to a maximum of three marks.	3
	<ol style="list-style-type: none"> 1. idea that species richness gives no indication of abundance of each species; 2. idea that biodiversity refers to {variety/eq} of organisms; 3. ref to use of a calculated biodiversity index eg Simpson's; 4. using species richness value / number of different species; 5. number of individuals in each species recorded; 6. ref to genetic diversity; 	