

Question Number	Answer	Mark
6(a)	<p>Niche:</p> <ol style="list-style-type: none"> 1. the {role / function / eq} (of a species / organism) ; 2. {within the community / ecosystem /habitat / environment / eq } ; <p>Species richness:</p> <ol style="list-style-type: none"> 3. number of (different) species ; 4. in a {habitat / eq } / at any one time ; 	max (3)

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*6 (b)(i)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. (cheetah has) {lowest genetic diversity / least genetic variation } (of the listed cats) ; 2. correct reference to lack of adaptation / example / no selective advantage (when environment changes) ; 3. (therefore) less likely to survive / eq ; 4. (therefore) more at risk of {extinction / eq} ; 	max (3)

Question Number	Answer	Mark
6 (b)(ii)	<ol style="list-style-type: none"> 1. {greater / eq} genetic diversity (amongst the litter) / eq ; 2. greater chance that will {survive / eq} ; 3. increased chance of fertilisation / pregnancy / eq ; 4. increase in population size / eq ; 	max (2)

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6 (c)	<ol style="list-style-type: none"> 1. increases genetic diversity / eq ; 2. (because it) allows {outbreeding / mating / eq} with (genetically) different individuals / eq ; 3. stop/reduces {inbreeding / mating with parents / siblings} ; 4. (which) reduces genetic diversity / eq ; 	max (2)

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6 (d)	cheetahs that are exclusive to one continent ;	(1)