

2(a)(i)			
		<i>E. turcicum</i>	<i>Z. mays</i>
	1 structural difference	chitin cell wall or no chloroplasts or hyphae / cells long and branching or syncytial / multinucleate / several nuclei per cell	cellulose cell wall or chloroplasts or no hyphae / cells not long and branching or one nucleus per cell ;
	2 functional difference	heterotroph(ic) / parasitic / obtain food from host / do not photosynthesise	autotroph(ic) / phototrophic / photosynthesis(e) ;
2(a)(ii)	any four from: 1 large groups divide into smaller groups ; 2 common / similar / shared, features within a group ; 3 <i>ref. three of:</i> kingdom – phylum – class – order – family ; 4 genus and species = binomial / Linnaean / Latin / scientific, name ; 5 (both in domain) Eukarya ; 6 different kingdoms / Fungi and Plantae ;		
2(b)(i)	any two from: 1 low percentage leaf damage means high resistance (to infection) ; 2 SKV50 = 22% <u>and</u> CML153 = 58% ; 3 SKV50 shows greater resistance (to infection) ;		
2(b)(ii)	continuous ;		
2(b)(iii)	any four from: 1 many / different / several / multiple, genes ; 2 affect, same trait / (percentage) area of leaf damage / resistance ; 3 <u>alleles</u> of, one / each, gene have a small effect ; 4 (different) <u>genes</u> have, additive / combined / interactive, effects ; 5 mathematical treatment to illustrate additive effect ;		

8(a)	any four from : 1 (named) protected reserves ; 2 limit palm oil plantations / <i>ref. to</i> sustainable palm oil production ; 3 restoring lost habitat / reforestation / reduce deforestation ; 4 captive breeding programs ; 5 release into wild ; 6 ban, hunting / trade ; 7 raise awareness / education ; 8 <i>ref. to</i> research ;
8(b)	1 ecosystem / habitat (diversity) ; 2 species (diversity / richness) ; 3 genetic (diversity) ;
8(c)(i)	0.2034 ; 0.3072 ; <i>allow ecf for mp2 if both incorrect</i> <i>allow ecf for mp2 if figure correct in both but not to 4dp</i>
8(c)(ii)	0.6928 / 0.693 ; <i>allow ecf for 1 minus their answer to 8ci</i>
8(c)(iii)	(D) close(r) to 1 / higher than 0.5 ; (so) high(er) (bio)diversity ;

6(a)(i)	any three from: 1 identify / protect / prioritise, species most at risk ; 2 provide data to / advise, governments / scientists / zoos / industry ; 3 so action can be taken to protect a <u>species</u> ; 4 example of conservation action ; 5 AVP ;
6(a)(ii)	<i>in Europe / west or where, endangered / EN (context must be stated)</i> 1 <i>P. arion</i> less abundant (compared to, Asia / NT) ; 2 more threatened / higher risk of extinction ; 3 AVP ;
6(b)(i)	1 <u>habitat</u> , degradation / change / loss ; 2 due to, (change in) farming / development ; 3 lack of, food plants / flowers for food ;
6(b)(ii)	any four from: 1 prevent extinction / allow survival (of species) ; 2 maintain / increase, biodiversity ; 3 aesthetic / recreational / wellbeing (reasons / benefits) ; 4 for, scientific interest / research / education ; 5 ethical / moral / stewardship (obligation) ; 6 local cultural significance / save local heritage / ecotourism ; 7 maintain / protect / restore / stability of, food chains / food webs ; 8 pollination / ecosystem, services ;