2(a)(i)

	E. turcicum	*Z. mays*
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 *ref. three of:* 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% and 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 alleles of, one / each, gene have a small effect **;**
4 (different) genes 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 / *ref. to* 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 *ref. to* research ;
8(b)	1 ecosystem / habitat (diversity) ; 2 species (diversity / richness) ; 3 genetic (diversity) ;
8(c)(i)	0.2034 ; 0.3072 ; *allow **ecf** for mp2 if both incorrect* *allow **ecf** for mp2 if figure correct in both but not to 4dp*
8(c)(ii)	0.6928 / 0.693 ; *allow **ecf** for 1 minus their answer to **8ci***
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)	*in Europe / west **or** where, endangered / EN (context must be stated)* **1** *P. arion* 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 ;