

Higher Combined version — Higher Tier (★) included; Separate-only (◆) removed.

**Q1. Describe the process of selective breeding.**

**[3 marks]**

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**Q2. Evaluate selective breeding as a method of improving crop yields. Consider both advantages and disadvantages.**

**[4 marks]**

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**Total: 7 marks**

**Q1 (3 marks)**

*Describe the process of selective breeding.*

- Select individuals from the population with the most desirable characteristics [1]
- Breed these together; select offspring with best characteristics [1]
- Repeat over many generations until the desired characteristic is reliably produced [1]

**Q2 (4 marks)**

*Evaluate selective breeding as a method of improving crop yields. Consider both advantages...*

- Advantage: can dramatically improve yield, disease resistance or nutritional content [1]
- Advantage: well-established technique, does not require advanced technology [1]
- Disadvantage: reduces genetic diversity — narrows the gene pool [1]
- Disadvantage: inbreeding risk — increased prevalence of recessive disorders; population vulnerable to new diseases/pests [1]