

Foundation Separate version — Higher Tier (★) questions removed.

Q1. Describe the process of selective breeding and ONE disadvantage.

[3 marks]

Q2. Evaluate the use of genetically modified (GM) crops.

[4 marks]

Total: 7 marks

Q1 (3 marks)

Describe the process of selective breeding and ONE disadvantage.

- Select individuals with desired traits → breed → select offspring → repeat [1]
- Improves traits over generations [1]
- Disadvantage: reduces genetic diversity / inbreeding risk [1]

Q2 (4 marks)

Evaluate the use of genetically modified (GM) crops.

- Benefit: herbicide/pest resistant — reduces chemical use [1]
- Benefit: improved nutrition (e.g. golden rice) / higher yield [1]
- Concern: GM genes may spread to wild plants — ecological consequences [1]
- Concern: ethical issues, corporate control of seed supply [1]