

Full Higher Separate content. ★ = Higher Tier. ◆ = Separate Science only.

Q1. Define: (a) gene, (b) allele, (c) dominant, (d) recessive.

[4 marks]

Q2. A pea plant has genotype Tt (tall). State the genotypes of the gametes it can produce.

[2 marks]

Total: 6 marks

Q1 (4 marks)

Define: (a) gene, (b) allele, (c) dominant, (d) recessive.

- (a) Section of DNA coding for a specific protein [1]
- (b) A version of a gene [1]
- (c) Expressed with one copy — masks recessive [1]
- (d) Only expressed with two copies [1]

Q2 (2 marks)

A pea plant has genotype Tt (tall). State the genotypes of the gametes it can produce.

- T and t [2] — award 1 if only one given