

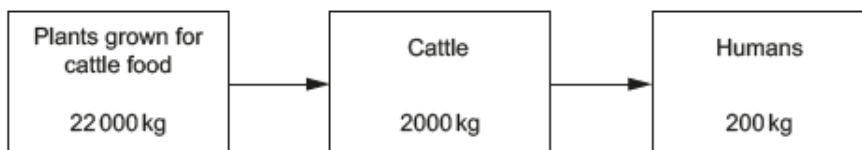
GCSE Biology A (Gateway)

J247/02 B4-B6 and B7 Foundation (Foundation Tier)

Question Set 16

1

The diagram shows the flow of biomass through an agricultural food chain.



(a) (i) Calculate how much biomass is lost between the plants and humans.

Answer = kg

[1]

(ii) One-way biomass is lost from the food chain is by insects eating the leaves of plants.

Write down **one** other way that biomass is lost from the food chain.

[1]

(b) The plants grown for cattle food often have their leaves eaten by insects.

Scientists have produced genetically modified (GM) plants that make insecticide in their leaves.

(i)* Explain why these GM plants would make more biomass available to humans.

In your answer use the diagram of the agricultural food chain and ideas about photosynthesis.

[6]

(ii) Suggest **two** reasons why some people are against this type of genetic engineering.

1.....

2.....

[2]

Total Marks for Question Set 16: 10

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