5th Year Ag Science Test - Kale

Short Questions: (40m)

(a) What is a catch crop? Give 2 examples. (3m for definition, 1m per named crop)

(b) List three advantages of catch crops. (2m for first two, 1m for last)

(c) List three disadvantages of catch crops. (2m for first two, 1m for last)

(d) What can be done to prevent club root? (5m)

(e) What type of soil is ideal for the growth of Kale? 2 points. (3m for first, 2m for second)

(f) Circle the correct answer. Kale is biennial/perennial. (5m)

(g) Name three types of Kale varieties. (2m for first two, 1m for last)

(h) What family does Kale belong to. (5m)

Structured Question: (30m)

Outline the lifespan of Kale on the farm under the following headings. Mention 3 points of information regarding each one.

-Soil Suitability (3m per point)

-Seedbed Preparation and Sowing (3m per point)

-Seed Selection (Mention type & advantage of type) (3m per point)

-Weed/Pest Control (3m per point)

-Benefits of Kale (3m per point)

Synoptic Question: (30m)

-What are two health and safety measures one should take while working with Kale? $(\mbox{5m each})$

-When feeding Kale to livestock as winter fodder what must be considered? Refer to the factor that must be considered and give a solution. (5m per point) -Where could you go ,online or in person, if you wanted to get information on the growth of Kale. Refer to a reliable source of information and say why it is reliable. (4m for site & 6m for why)

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Marking Scheme

Short Questions (40m)

(a) What is a catch crop? Give 2 examples. A catch crop is a fast-growing crop grown between two main crops on land that would otherwise be left idle. Eg: Kale/Cabbage. (3m for definition, 1m per named crop)
(b) List three advantages of catch crops. Fast growing/High yielding/Prevent N leaching etc. (2m for first two, 1m for last)
(c) List three disadvantages of catch crops. Labour intensive/Vulnerable to pests/Usually low in fibre. (2m for first two, 1m for last)
(d) What can be done to prevent club root? Crop Rotation/any other valid answer. (5m)
(e) What type of soil is ideal for the growth of Kale? 2 points.pH 6-7/sandy,free-draining loam. (3m for first, 2m for second)
(f) Circle the correct answer. Kale is biennial/perennial. biennial (5m)
(g) Name three types of Kale varieties. Keeper/Caledonian/Maris Kestrel/Grampian (2m for first two, 1m for last)
(h) What family does Kale belong to. Brassicaceae (5m)

Structured Question: (30m)

Outline the lifespan of Kale on the farm under the following headings. Mention 3 points of information regarding each one.

-Soil Suitability (3m per point)

pH 6-7/free-draining sandy loam/flat land/ not too close to a watercourse.

-Seedbed Preparation and Sowing (3m per point)

Soil test 8 weeks prior/Plough/Harrow/depth of 10mm/ roll after

-Seed Selection (Mention type & advantage of type) (3m per point)

Caledonian-Good yield, high leaf to stem ratio/ Keeper-high yield, winter hardy/ Maris Kestrel-good yield, high leaf to stem ratio

-Weed/Pest Control (3m per point)

Rotation/pesticides/herbicides/fungicides/insecticides/any named pest or disease i.e. Flea beetle

-Benefits of Kale (3m per point)

Winter fodder/reduce housing costs/reduces labour for feeding & silage production/economical etc.

Synoptic Question: (30m)

-What are two health and safety measures one should take while working with Kale? (5m each)

Ensure all machinery is functioning properly/ Wear protective equipment -When feeding Kale to livestock as winter fodder what must be considered? Refer to the factor that must be considered and give a solution. (5m per point) Low in fibre- give them silage or hay in conjunction with Kale/Supplements -Where could you go ,online or in person, if you wanted to get information on the growth of Kale. Refer to a reliable source of information and say why it is reliable. (4m for site & 6m for why)

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