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P515/2
PRINCIPLES AND
PRACTICES OF
AGRICULTURE
Paper 2
July/ Aug: 2022
3hours



MATIGO MOCK EXAMINATIONS 2022
Uganda Advanced Certificate of Education
PRINCIPLES AND PRACTICES OF AGRICULTURE
Paper 2
3 hours

INSTRUCTIONS TO CANDIDATES:

This paper consists of sections A, B, C, D and E

Section A is compulsory

*Choose **one** question from each of the sections B, C, D and E*

*Any additional question(s) answered will **not** be marked.*

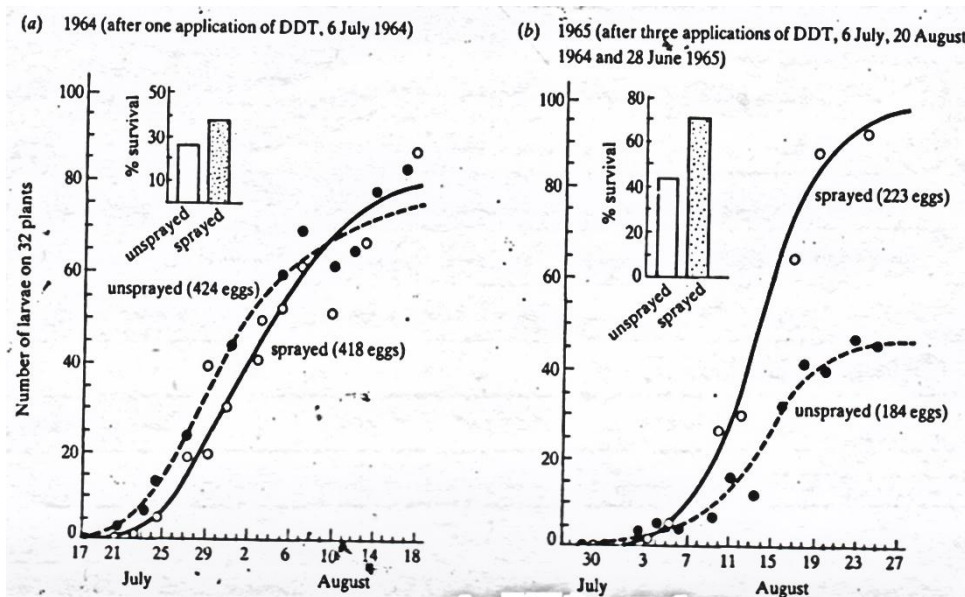
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Questions	Marks
Total	

SECTION A (20 MARKS)

Compulsory question

1. A study was carried out on the use of **DDT** to control white butterfly on cabbage crops. The graphs below illustrate the deferential effects of **DDT** on crop and soil fauna.



- Describe the pattern of the curves and graphs. (5 marks)
- Explain the shapes of the curves for after one application and after three applications of **DDT**. (4 marks)
- From these graphs what conclusions can you draw regarding the effects of pesticides when used to control crop population? (5 marks)
- Outline the precautions that should be taken to ensure safe use of pesticides. (6 marks)

SECTION B (20 MARKS)

CROP PRODUCTION

- State the objectives of crop improvement. (10 marks)
 - What considerations should be made when selecting seeds for an improvement programme? (10 marks)
- Explain how soil pH affects availability of plant nutrients. (4 marks)
 - Outline the factors that would make the soil pH to fall. (8 marks)
 - State the benefits of liming soils (8 marks)

SECTION C (20 MARKS)
ANIMAL PRODUCTION

4. a) Explain the factors that affect milk composition from a cow. (8 marks)
b) Give the characteristics of high quality milk. (6 marks)
c) What causes unpleasant flavours in milk? (6 marks)
5. a) Distinguish between **cropping** and **harvesting of fish**. (4 marks)
b) Describe the procedure followed in harvesting fish and the practices carried out on fish after harvesting up to preservation. (16 marks)

SECTION D (20 MARKS)
AGRICULTURAL MECHANISATION

6. a) What advice would you give to a farmer who is considering to buy farm machinery? (10 marks)
b) Outline the functions that should be performed by a good planter. (5 marks)
c) How do the operators ensure that planters function efficiently? (5 marks)
7. a) Describe the features of a good farm store for grains? (10 marks)
b) What factors are considered when erecting a store for grain storage? (10 marks)

SECTION E (20 MARKS)
AGRICULTURAL ECONOMICS

8. a) What is **farm planning**? (2 marks)
b) Explain the factors considered in drawing a farm plan. (8 marks)
c) Outline steps followed in making a farm plan. (10 marks)
9. a) Explain why farmers should be encouraged to keep records. (9 marks)
b) Describe the features of a balance sheet. (5 marks)
c) Why is it necessary for a farmer to draw a balance sheet for his farm? (6 marks)

END