

BETHANY HIGH SCHOOL – NAALYA

S.3 AGRICULTURE

2 hrs

SECTION A: OBJECTIVES

Answer all questions in both sections A.

Write answers to section A in the boxes provided.

Write answer to section B in the spaces provided.

No additional writing paper should be attached to this question paper

1. (a) Inheritance of large pendulous udders in dairy cattle can easily expose cows to;
- (a) Mastitis (b) Lameness (c) Udder congestion (d) Milk hold up
- (b) Which one of the following implements is best to be used on land after using a disc plough?
- (a) Ox plough (b) Tractor mould board (c) Disc hurrow (d) Sub soiler
- (c) Broad leaved weeds can be specifically controlled chemically using;
- (a) Atrazine (b) 2,4-D (c) Round up (d) Glyphosate
- (d) The following are variable costs of production except;
- (a) Cost of fertilizers (b) Cost of seeds (c) Casual labour (d) Insurance cost

SECTION B (70 MARKS)

Write answers in the spaces provided

1. (a) Give the meaning of the following as applied in pesticide use.
- (i) Pre-harvest period (1 mark)
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- (ii) Lethal dose 50 (LD50) (1 mark)
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- (b) Explain four characteristics that make pests successful in nature. (04mks)

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(c) State four qualities of a good biological agent for pest control. (4mks)

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2. (a) State four qualities of a good egg that can produce high quality chicks (4mks)

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(b) State any three causes of poor egg production in birds. (3mks)

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3. State any five uses of fences in animal production. (5mks)

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4. (a) Outline five advantages of using herbicides in weed control (5mks)

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- (b) Mention three safety precautions that should be considered while using herbicides. (3mks)
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PART B 80 MARKS

Answer four questions including at least one question from each section. Write your answers on the answer booklets provided.

CROP PRODUCTION

5. (a) Explain the role played by mulching in soil and water Conservation? (12mks)
- (b) What is the importance of soil water in crop production? (5mks)
- (c) Give three different types of soil water. (3mks)
6. (a) State the various ways of disease spread in crops. (6mks)
- (b) Mention signs of diseases in crops. (6mks)
- (c) How do crop growers reduce the effect of diseases in crops (8mks)
7. (a) Describe the process of growing maize from seed bed preparations to harvesting. (8mks)
- (b) Explain how the various growing practices improve the maize production. (12mks)

ANIMAL PRODUCTION

8. (a) Describe the procedures of dehorning a calf using chemical method. (7mks)
- (b) State the advantages of dehorning in live stock production (7mks)
- (c) Outline the advantages of castration farm animals. (6mks)
9. (a) State the signs of the following diseases in live stock.
- (i) mastitis (2mks)
- (ii) Bloat (2mks)

- (iii) Grass Tetany (2mks)
- (b) Outline the measures taken by farmers to control East Coast Fever in cattle (6mks)
- (c) What are the factors that predispose cows to mastitis (6mks)

MECHANIZATION AND FARM MANAGERMENTS

- 10. (a) What are the characteristics of agricultural products? (6mks)
- (b) Explain the causes of low supply of agriculture products. (14mks)
- 11. (a) Mention 8 ways how to control risks and uncertainties in agriculture production. (8mks)
- (b) Explain six reasons why women are not involved in agricultural sector in Uganda. (12mks)

End