

CALTEC ACADEMY MAKERERE

S.6 HOLIDAY WORK

PRINCIPLES AND PRACTICES OF AGRICULTURE

P515 THEORY

TIME:3 HOURS

INSTRUCTIONS:

- Section A is compulsory.
- For section B, C, D AND E Select at least one question for each.
- Begin each question on a fresh page.

SECTION A (Compulsory question.)

1. Two species of stem borers were developed on four different crops (maize, sorghum, bananas, and sugarcane). The population of the number of the stem borers that survived was represented as a percentage. Use the information below to answer the questions that follow,

Host plant	Sesamia calamistis that survived (%)	Chilo partellus that survived (%)
Bananas	1.0	1.0
sugarcane	6.5	13.0
sorghum	0.3	0.0
maize	30.0	46.0

- a) With a reason, identify the most destructive pest of the two. (2marks)
- b) Explain four factors that may influence the level of attack by stem borers to crops. (8marks).
- c) State the nature of damage caused by stem borers to crops. (4marks).
- d) State four appropriate control measures of stem borers. (4marks).
- e) State four examples of crops attacked by stem borers apart from maize. (2marks).

SECTION B CROP PRODUCTION

2. a. Outline the basic principles that should be followed when trying to raise vegetable crops. (10marks).
- b. Describe the procedure followed when transplanting seedling. (5marks).
- c. what are the benefits of vegetable growing.(5 marks)
3. a. outline the economic importance of bananas. (12marks)
- b. Describe how you would maintain a banana plantation to ensure high production. (08 marks).

SECTION C ANIMAL PRODUCTION

- 4.a .state and explain the factors to consider in choosing between establishing dairy and beef cattle enterprise.(5 marks)
- b. what desirable characteristics would you look for while selecting animals for a dairy enterprise.(10 marks)
- c. How would you ensure high production in a dairy herd? (5marks).
5. a. with of the help of a diagram, describe the digestive system of a cow.
- b. mention the differences between ruminant and non-ruminant digestion.(5 marks)
- c. Outline five conditions provided by the ruminant animals to the rumen microbes. (5marks).

SECTION D AGRICULTURAL ECONOMICS

6. a. mention the sources of agricultural credit to the farmers.(5marks)
- b. suggest benefits of agricultural credit to the farmers.(8marks)
- c. Give the reasons why farmers sometimes fail to repay their loans.(7marks).

- 7.a.Explain the causes of price fluctuation for Agricultural commodities.(12marks)
- b. suggest the remedies taken to revert price instabilities in Uganda.(8 marks).

SECTION E FARM STRUCTURES.

- 8 .a. Mention the ways how the farmers can fight water shortages in a farm.(10 marks)
- b. Give the importance of farm water (5marks)
- c. Outline the ways how farm water can be polluted.(5marks).
9. a. what are the procedures followed in mixing the acaricides for the dip tank.
- b. Mention the precautions to take when dipping animals.
- c. Outline factors that alter the concentration of dip wash.
- d. Give the ways how to ensure effectiveness of dipping.

END.

AGRICULTURAL DEPT 2020.