

- 7a) Explain the factors considered when selecting source of power to use for farm work? (09 marks)  
 (b).Describe the benefits of using working animals on the farm. (06 marks)  
 (c).Identify the activities where mechanization can be applied on farms. (05 marks)

**SECTION E**  
**(AGRICULTURAL ECONOMICS AND FARM MANAGEMENT)**

- 8(a). Describe the effects of fluctuations in the prices of farm products. (08 marks)  
 (b). What measures can be used to stabilize prices of farm products? (07 marks)  
 (c). Suggest the methods of determining prices of farm products. (05 marks)
- 9a). Describe the principles on which the cooperatives are governed. (09 marks)  
 (b). How can farmers benefit from being members of cooperatives? (06 marks)  
 (c). What challenges are encountered by farmers during formation and management of cooperative organizations? (05 marks)

**END**



**MEBU EXAMINATIONS CONSULT**  
**Uganda Advanced Certificate Of Education**  
**MOCK EXAMINATIONS 2024**  
**Principles & Practices of Agriculture.**

Paper 2  
 (Theory)

Time: 3 Hours

**INSTRUCTIONS TO CANDIDATES**

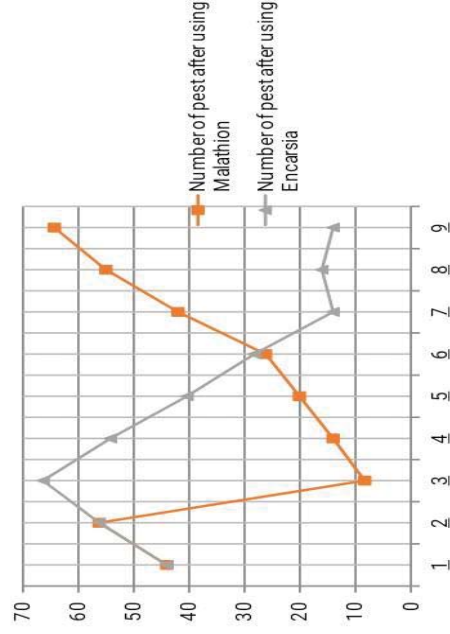
Section A is compulsory.

Choose any **ONE** question from sections **B, C, D** and **E**.

## SECTION A (COMPULSORY)

1. The graph below shows a tomato grower using Malathion or Encarsia (predatory wasp) to reduce the number of white flies. Malathion was sprayed twice in the first week and fourth week (X-axis). Use the information to answer the questions that follow.

Figure 1



- (a). Compare the graphs plotted in (a) above. (06 marks)
- b) Suggest the method that should be used for long term success and give reasons. (04 marks)
- c) What term describes the use of Encarsia method to reduce the number of white flies? (01 mark)
- d) Give three advantages of using Encarsia method to reduce the pest population in tomatoes. (03 marks)
- e) Suggest the desired qualities of Encarsia method as a good control agent. (04 marks)
- f) Why is it not possible to use both methods together? (02 marks)

## SECTION B (CROP PRODUCTION)

- 2a) what are the characteristics of a good Agro forestry tree species? (08 marks)
- (b).Describe how you would raise tree seedlings using polythene pots in the nursery beds. (08 marks)
- (c).What benefits do crops get when inter-planted with trees? (04 marks)
- 3a).Describe the practices that encourage soil aggregation and aggregate stability. (09 marks)
- b) How does a good soil structure contribute to crop production? (06 marks)
- (c).In what ways do living organisms contribute to soil fertility? (05 marks)

## SECTION C (ANIMAL PRODUCTION)

4. A farmer would like to make a ratio of 16% protein using the following feed stuffs, maize brand 8% protein, broken maize 12% protein and soya - bean meal 38% .
- a) In what proportion would he mix the feed stuffs to make 100 kilogram feeds if maize brand and broken maize are mixed in the ratio of 1:2? (Use the Pearson square method). (08 marks)
- (b).Why is it necessary to carry out processing of feeds before giving them to animals? (06 marks)
- (c).What safety measures should be taken when handling and serving feeds to animals? (06 marks)
- 5a) Describe the ways of measuring breeding efficiency in a flock? (05 marks)
- (b).Explain the causes of low breeding efficiency among cattle? (09 marks)
- (c).How can low breeding efficiency of a flock be improved? (06 marks)

## SECTION D (AGRICULTURE MECHANIZATION)

- 6a) Explain the factors that influence farm lay out. (09 marks)
- (b).Why is use of wood in construction more popular in Uganda? (06 marks)
- (c).Identify the features to consider when designing a good calf pen. (08 marks)