

ST. GEORGE ACADEMY AND ORPHANS SUPPORT TRUST
2018 MALAWI SCHOOL CERTIFICATE MOCK EXAMINATION

AGRICULTURE

Monday, 7 March

Time Allowed: 1¹/₂ hour sessions

PAPER II

(60 marks)

Practical

Instructions

1. This paper contains 6 printed pages.
Please check.
2. Answer all questions in the spaces
Provided. Marks are indicated against
each part of the question.
3. Write your name on top of each page.
4. In the table provided on this page, tick
against the question number you have
answered.
5. At the of the examination, hand in
your paper to the invigilator.

Question Number	Tick if answered	Do not write in these columns	
1			
2			
3			
4			



1. You are provided with two specimens labeled **X** and **Y**.

a. i. Which of the two specimens is difficult to store when it is fresh?-----

_____ (-----1
mark)

ii. Give a reason for your answer to 1. a. (i)

_____ (1 mark)

iii. State any two advantages of processing specimen **X**

_____ (2 marks)

b. Mr. Kawerama wants to grow specimen **X** in his orchard. He lives in a hot dry area, and he wants to grow a variety that matures early. Use this information to answer the questions that follow.

i. Name one exotic variety that can grow well in the area he lives.

_____ (2 marks)

Explain any two factors that affect the lower yield and quality of mangoes in Malawi.

_____ (4 marks)

Why is it necessary to disinfect the specimen **Y** when processing it for storage? Give any one reason.

_____ (2 marks)

2. You are provided with specimen **M** and **P** as weeds that are growing in a maize field.

a. i. Identify the specimen **M** and **P**

_____ (2 marks)

ii. Explain how one would classify specimen **M** and **P** for easy identification.

_____ (2 marks)

iii. Except maize, name **any one** host crop for specimen **P**.

_____ (1 mark)

iv. State **any two** reasons why the classification of weeds is important.

_____ (2 marks)

v. Explain why specimen **M** is sometimes called "**protective food**". Give one reason.

_____ (2 marks)

3. Mr. Mosopa is a poultry farmer; he rears chickens in his farm. He finds it difficult to feed chickens because the manufactured feed is expensive. Use this information to answer the questions that follow:

a. i. Explain how Mr. Mosopa could overcome the problem of the feed.

(2 marks)

ii. State **two types** of rations.

(2marks)

iii. What type of ration is particularly important for young growing animals or animals in gestation?

(1 mark)

iv. Give a reason for your answer to question 3a.iii.

(2 marks)

b. Using Pearson's square as a method of computing ration, describe how you can tell Mr.Mosopa to formulate a 15% protein feed using maize containing about 10% protein and been meal containing 35% protein.

(10 marks)

c. Give the name of meat for the following animals:

i. Goat:

_____ (1 mark)

ii. Turkey:

_____ (1 mark)

iii. Sheep:

_____ (1 mark)

4. a. A teacher gave students the following items:

- 50 g of dry soil.
- Sieves of the following mesh sizes 0.2mm, 0.02mm, and 0.002mm
- A weighing scale.

Describe an experiment that would be done to determine percentage of different soil particles of the sample.

 (10 marks)

Table 1.

6

600	7600
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i. Plot a graph of yield against fertilizer rate. (4 marks)

ii. From the graph what is the best fertilizer rate that can be recommended for growing maize?

_____ (1 mark)

iii. Give a reason for the answer in 4.b.

_____ (2 marks)

iv. State the economic principle which has been illustrated on the graph.

_____ (1 mark)

v. What is the important of analyzing data in this experiment?

_____ (1 mark)

END OF QUESTION PAPER