



# CENTRAL EAST EDUCATION DIVISION

2023 MALAWI SCHOOL CERTIFICATE OF EDUCATION MOCK EXAMINATION

## AGRICULTURE

Subject number: M012/II

Tuesday, 14 March

Time allowed: 1 ½ hours

8:00 am onwards

## PAPER II

## PRACTICAL

(40 marks)

1. This paper contains 7 printed pages.

Please check

2. This paper has two sections A and B
3. Follow instructions for each section
4. In the table provided on this page **tick** against the question number you have answered
5. Hand in your question paper to the invigilator when time is called to stop writing

### IMPORTANT

6. Make sure you write your **Name** in the spaces provided on **all** the pages of this paper before you start answering the questions

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



2. Study the type of budget in the table below and use it to answer questions **a**, **b**, **c**, **d** to **e**

TOTAL COSTS OF CHANGE (MK)		TOTAL REVENUE FROM CHANGE (MK)	
<b>a. Extra cost</b>		<b>c. Extra Revenue</b>	
100 sacks @ MK200 each	<b>20,000</b>	Sale of 100 bags of maize stored @	<b>500,000</b>
10 bottles of actellic dust @ MK 1100	<b>11,000</b>	MK5,000	
Casual labour	<b>20,000</b>		
<b>b. Revenue forgone</b>		<b>d. Cost saved</b>	
100 bags of maize @ MK 2,500 each	<b>250,000</b>		Nil

- a. Identify the type of budget

\_\_\_\_\_

**(1 mark)**

- b. Calculate the profit or loss using the information in the table **(5 marks)**

c. Should the farmer go ahead with this budget?

\_\_\_\_\_  
(1 mark)

d. Give a reason for your answer in (c)

\_\_\_\_\_  
\_\_\_\_\_  
(1 mark)

e. State any **two** uses of a partial budget

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
(2 marks)

### SECTION B (20 MARKS)

3. You are provided with specimen **J**.

a. State any **two** processing activities through which specimen **J** undergo in readiness for storage

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
(2 marks)

b. Give any **one** condition which is required in storage of specimen **J**.

\_\_\_\_\_  
\_\_\_\_\_  
(1 mark)

- c. Explain **one** way in which processing companies that use specimen **J** help to ensure food security.

\_\_\_\_\_  
\_\_\_\_\_  
(2 marks)

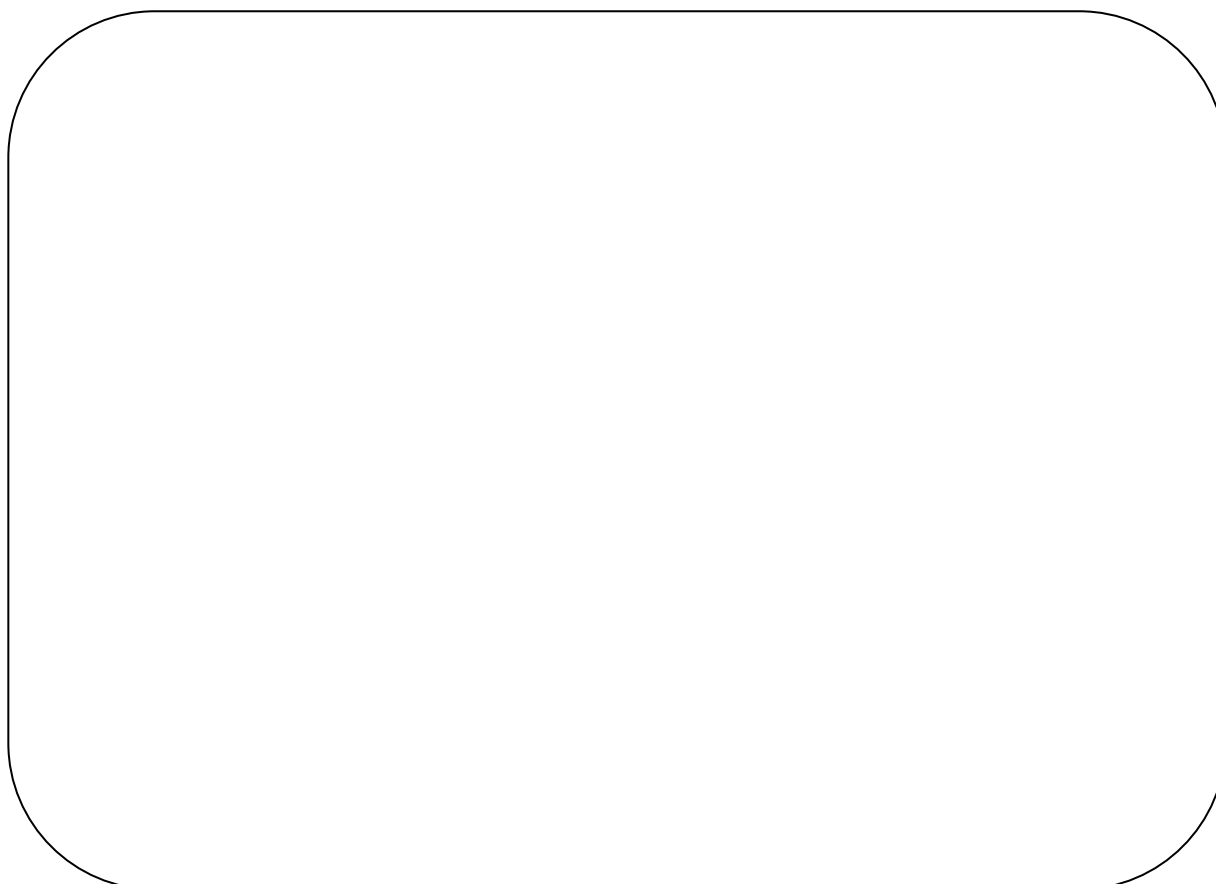
- d. (i) What type of demand does specimen **J** have on the market?

\_\_\_\_\_  
(1 mark)

- (ii) Give a reason for your answer to **d. (i)**.

\_\_\_\_\_  
(1 mark)

- e. Sketch a graph to illustrate the demand in **d. (i)**. (3 marks)



4. You are provided with the following:

- Specimen X
- Soil samples Y and Z
- Two leaves of blue litmus paper
- Distilled water

*Procedure 1*

- Feel soil sample Y and Z in between thumb and fore finger

a. Record results in the following table

Soil sample	How it feels
Y	
Z	

(2marks)

*Procedure 2*

- Add to each soil sample in the container 50ml of distilled water.
- Dip the litmus paper in the soil solution and wait for 2 minutes
- Remove the litmus paper and observe the colour change

b. Record results on the colour of the litmus paper in the following table

Soil sample	Colour of litmus paper
Y	

Z	
---	--

**(2 marks)**

c. Name the soil chemical property that is being investigated

\_\_\_\_\_

**(1 mark)**

d. Which soil is suitable for cultivation of specimen X in relation to results in (c)

\_\_\_\_\_

**(1mark)**

e. Give a reason for the answer

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**(2 marks)**

f. State any **two** ways of modifying the chemical property soil sample **Y** to suit maize production

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**(2 marks)**

**END OF QUESTION PAPER**

**NB: This paper contains 7 printed pages**