



# 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			

## SECTION A (20 MARKS)

1. Describe the procedure of seeding mushroom spawns. Include materials in the description

### Materials that can be used

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(2 marks)

### Procedure

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(8 marks)

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

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

- a. Identify the type of budget
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**(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?

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(1 mark)

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

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(1 mark)

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

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(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

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(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.
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**(2 marks)**

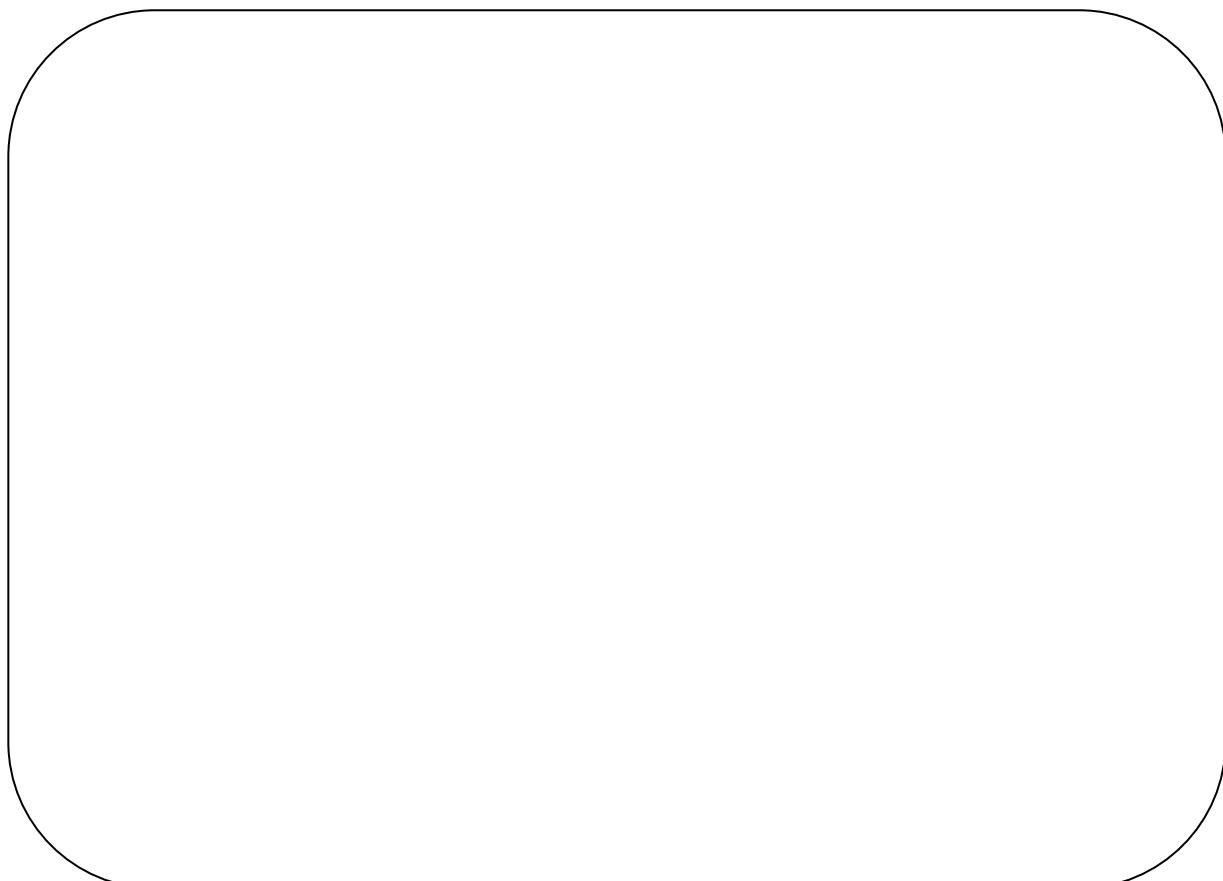
- d. (i) What type of demand does specimen **J** have on the market?
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**(1 mark)**

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

<b>Soil sample</b>	<b>How it feels</b>
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

<b>Soil sample</b>	<b>Colour of litmus paper</b>
Y	

Z	
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(2 marks)

- c. Name the soil chemical property that is being investigated

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(1 mark)

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

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(1mark)

- e. Give a reason for the answer

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(2 marks)

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

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(2 marks)

**END OF QUESTION PAPER**

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