<b>EXAMINATION NO.:</b>	
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# NDIRANDE COACHING CENTRE

2023 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

# **BIOLOGY**

Friday 07 April

Time Allowed: 2-hour sessions 14:00 hrs onwards

Subject Number: M022/II

### **PAPER II**

**(40 marks)** 

#### **Instructions**

- 1. This paper contains 5 printed pages. Please check.
- 2. Write your **Name** at the top of each page of the question paper.
- 3. This paper contains sections A and B. Section A has two descriptive questions and Section B has two questions on experiment
- 4. Answer all the four questions in the spaces provided in the question paper. The maximum number of marks for each answer is indicated against each question. A pencil should be used for all drawings.
- 5. In the table provided on this page, **tick** against the number of question you have answered.
- 6. At the end of the examination, hand in your question paper to the invigilator when time is called to stop writing.

Question Number	Tick if answered	write in columns
1		
2		
3		
4		

Turn over/...

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## Section A (20 marks)

i	Describe an experiment that can be conducted to estimate population of fis in a pond. In an essay form, your answer should include procedure, expecte results and conclusion.				
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(10 marks)

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Page **3** of **5** 2. Describe an experiment that could be carried out to show that leaves contain different types of pigments. In an essay form, your answer should include procedure, expected results and conclusion.

(10 marks)

Continued/...

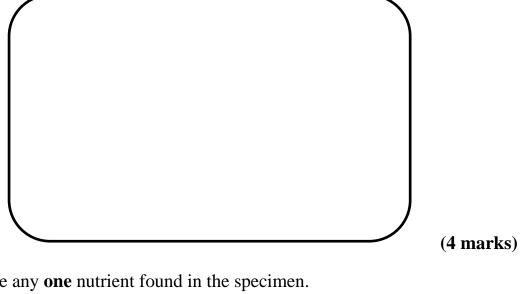
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## Section B (20 marks)

3.	You are	provided	with	the s	pecimen	labelled	X
$\sim$ .	I ou aic	provided	* * 1 * 1 * 1	CIIC D	pecimen	iacciica	

a.	Draw the	e specimen X	and label	any two	locomotory	parts
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b.	State any <b>one</b> nutrie	ent found in the	e specimen.	

(1mark)

c.	Explain any two adaptations of the specimen to survive in its habitat			

(2 marks)

d.	Write down the scientific name of specimen <b>X</b>

**(1 mark)** 

e. State any two human practices that are leading to decrease in the population of the specimen X


(2 marks)

**Continued/...** 

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<b>4.</b> You are provided with specimen <b>Y</b>	
a. Name the major food substance stored in th	e specimen
<b>b.</b> Explain how did the food substance named from the leaves.	in <b>4.a above</b> reach the specimen
	(2 marks)
c. Explain what happens to the stored food subsprouts	ostance when the specimen
d. Would you classify the specimen as a stem answer.	or a root? Give a reason for your
e. Explain why during starch test the specimen	(2 marks) is firstly boiled in water.
	(1 mark)
<b>f</b> . Suppose the specimen was drawn to a magn length of the drawing.	ification of <b>x4</b> , calculate the (3 marks)

## **END OF QUESTION PAPER**

NB: This paper contains 5 printed pages.