EXAMINATION NO.: _____THE MALAWI NATIONAL EXAMINATIONS BOARD

2019 MALAWI SCHOOL CERTIFICATE OF EDUCATION EXAMINATION

BIOLOGY

Subject Number: M022/II

Tuesday, 18 June

Time Allowed: $1\frac{1}{2}$ hour sessions

10:00 am onwards

PAPER II (40 marks) Practical

Instructions

- This paper contains 5 printed pages. Please check.
- 2. Write your Examination Number at the top of this page and of every sheet.
- This paper contains two 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.
- In the table provided on this page, tick against the question number you have answered.
- 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	Do not write in these columns	
2			
3			
4			

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Turn over

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Section A (20 marks)

	(10 mark		
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þ	procedure, expected results and conclusion.		
p	Describe an experiment that could be carried out to show that fish contains protein. In an essay form, your answer must include the following:		

Continued/...

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-	Λ	•	^
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•	Describe an experiment that could be carried out to show the effect of pH on activities of the enzyme amylase. In an essay form, your answer must include the following: procedure, expected results and conclusion.			
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	(10 marks			

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3.

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Section B (20 marks)

	9	(1 mar
(ii) Draw	the specimen and label any three parts.	(
7		
Calculate th	e magnification of your drawing. Show your w	(4 marks
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		(3 ma
Dinin 422	o observable adaptations of the specimen for p	hotosynthesis

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	You are provided with specimens B and C.	
	a. To which group of stems does specimen B belong?	ě
		(1 mark
ł	Draw specimen B and label four external parts.	
		¥
	3	(5 marks)
c.	State any two food nutrients stored in specimen B.	V-200-20
		(2 marks)
		(2 marks)
d.	Explain one adaptation of specimen C for it to grow in dry	habitat.
9		

END OF QUESTION PAPER This paper contains 5 printed pages.

(2 marks)