EXAMINATION NO.: _____

SOUTH EAST EDUCATION DIVISION EXAMINATIONS

2026 MALAWI SCHOOL CERTIFICATE OF EDUCATION MOCK EXAMINATION

BIOLOGY

Subject Number: M022/II

Friday, 27 March

Time Allowed: 1½ hours
10:00 am onwards

PAPER II

(40 marks)
PRACTICAL

Instructions:

1. **This paper contains 5 printed pages. Please check.**
2. Fill in your **Examination number** at the top of each page.
3. This paper contains **two** sections, **A** and **B.** In Section **A** there are **2** descriptive questions on practical work to be answered in **1 hour**. In section **B** there are **2** practical questions to be answered in **1 hour**.
4. Use of electronic calculators is allowed
5. The maximum number of marks for each answer is indicated against each question.
6. In the table provided on this page, **tick** against the number of the question you have answered.

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

SECTION A (20 marks)

SECTION A: ESSAY QUESTIONS

(20 marks)

1. In an essay form describe an experiment that can be conducted to show that energy is produced during respiration, include procedure , expected results and conclusion

10 marks

Continued/…

2. In an essay form describe an investigation that can be carried out to show that auxins are produced at tips of shoots, Include procedure, expected results and conclusion

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_____ **10 marks**

Continued/…

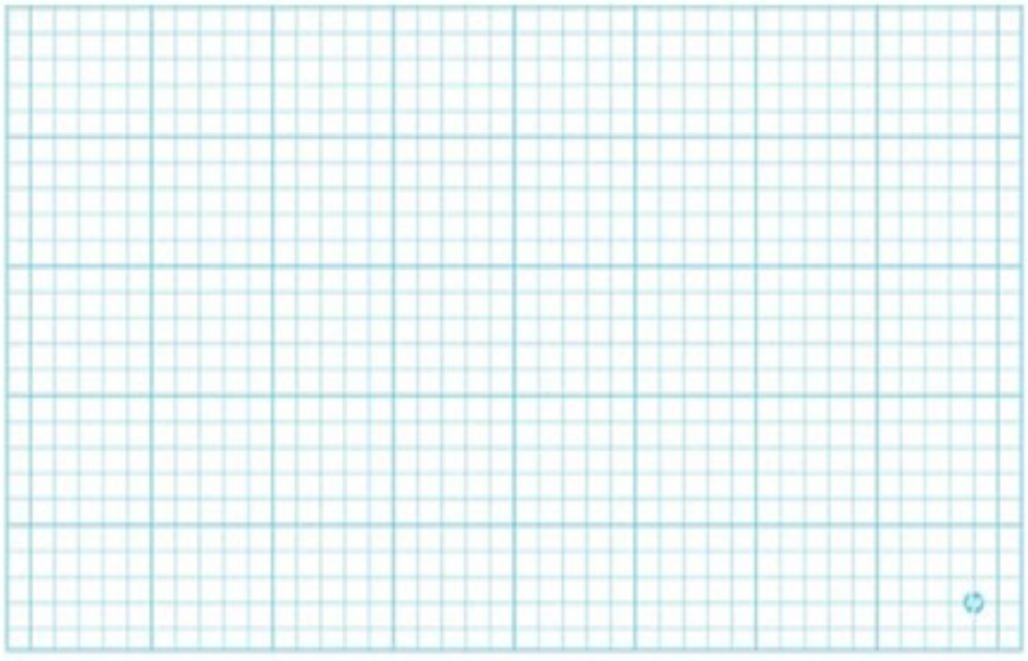
3. You are provided with 20 bean seeds and a 30 cm ruler. Use them to answer the questions that follows

a. Measure the length of each bean and complete the table below

Class interval of bean seeds(mm)	**5-9mm**	**10-14mm**	**15-19mm**	**20-24mm**
Number of bean seeds				

2 marks

b. On the graph plot a histogram showing number of bean seeds against class interval



4 marks

c. According to the graph what type of variation is shown by length of bean seeds?

_____ **1 mark**

d. Give a reason for your answer to (c) above

_____ **1 mark**

e. Explain any **one** cause of the variation you have given above

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_____ **2 marks**

Continued/…

4. You are provided with a 30cm ruler and **two** specimens labelled **A** and **B**. Use them to answer the questions that follows.

a. Measure the longest axis of **A** and indicate your answer in millimetres.

_____ **1 mark**

b. Draw specimen **A** to a magnification 0f **X0.5** and label any **two** fins used for steering

4 marks

c. Which of the **two** species between **A** and **B** is more adapted to fast moving in water? Give a reason for your answer

_____

_____

_____ **3 marks**

d. Mention any **two** nutrients obtained from the diet prepared from the specimen.

_____ **2 marks**

END OF QUESTION PAPER

NB: This paper contains 5 printed pages.