



ST MARY'S GIRLS SECONDARY SCHOOL

2020 MALAWI SCHOOL CERTIFICATE OF EDUCATION MOCK EXAMINATION

BIOLOGY

Subject Number: M022/II

Time allowed: 1 ½ hrs
 1:30 on wards

PAPER II (40 marks)

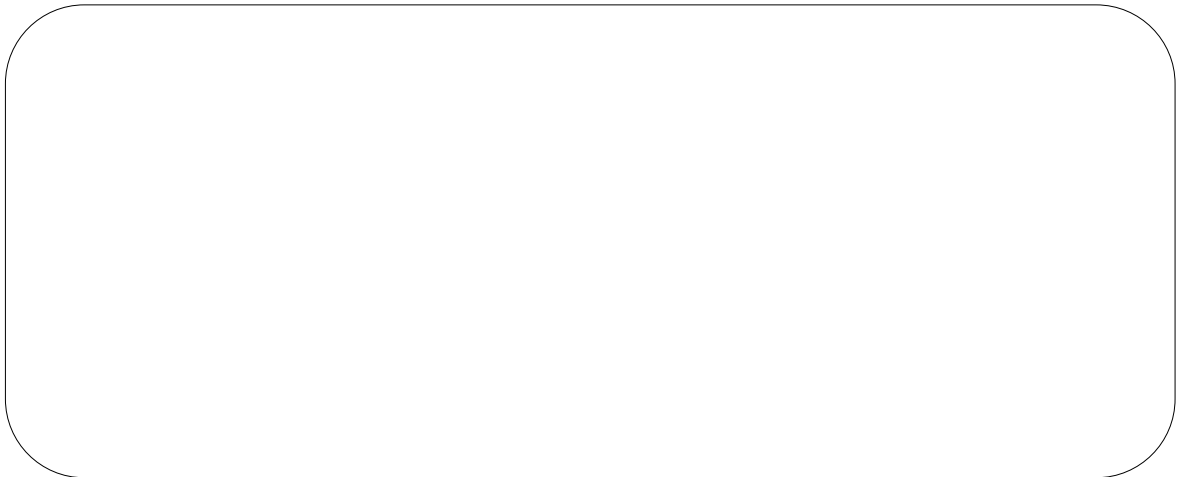
PRACTICAL

Instructions:

1. This paper contains 6 printed pages. Please check.
2. Write your names at the top of this page and of every sheet.
3. This paper contains two Sections A and B. Section A has two descriptive questions and Section B has two questions on experiments.
4. Answer all the four 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 question numbers 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.

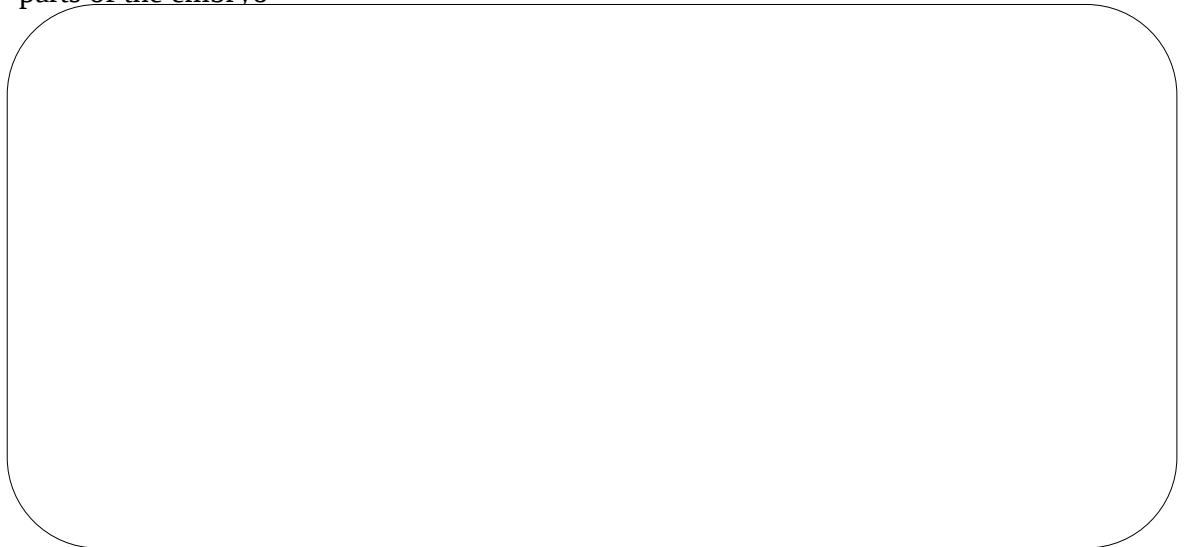
Question Number	Tick if answered	Do not write in these columns	
1			
2			
3			
4			

3. You are provided with specimen X which was soaked in water..
- a. i. Measure the longest axis of specimen X and record its length in mm.
_____ (1mark)
- ii. Suppose the specimen was drawn to a magnification of x5, calculate the length of the diagram.



(3marks)

- b. Using hands, peel the seed and separate the cotyledons so that embryo is seen attached to one cotyledon. Draw the cotyledon with the embryo and label two parts of the embryo



(3marks)

- c. Name the storage organ represented by specimen X.
_____ (1mark)
- d. i. Mention the deficiency disease that affect children due to lack of proteins.
_____ (1mark)

ii. Name any one symptoms of the deficiency diseases mentioned in (d) i

_____(1mark)

4. You are provided with specimen Y

a. Explain any two methods that can be used to preserve specimen Y

(i) _____

(ii) _____

_____(4marks)

b. i. Which group of microorganisms mostly reproduce in specimen Y

_____(1mark)

ii. Mention any disease that can be caused by the group of microorganisms mentioned in (b) i

_____(1mark)

c. Describe

d.

e. any factor that influence the growth of microorganisms

_____(2marks)

f. i. Name the enzyme in the stomach that digests the main food nutrient contained in specimen Y

_____(1mark)

ii. Mention the product of the main food nutrient acted by the enzyme mentioned above.

_____(1mark)



END OF QUESTION PAPER

