

PRE-MOCK III EXAMINATIONS 2023 Biology practical PAPER 2 TIME: 2 HOURS

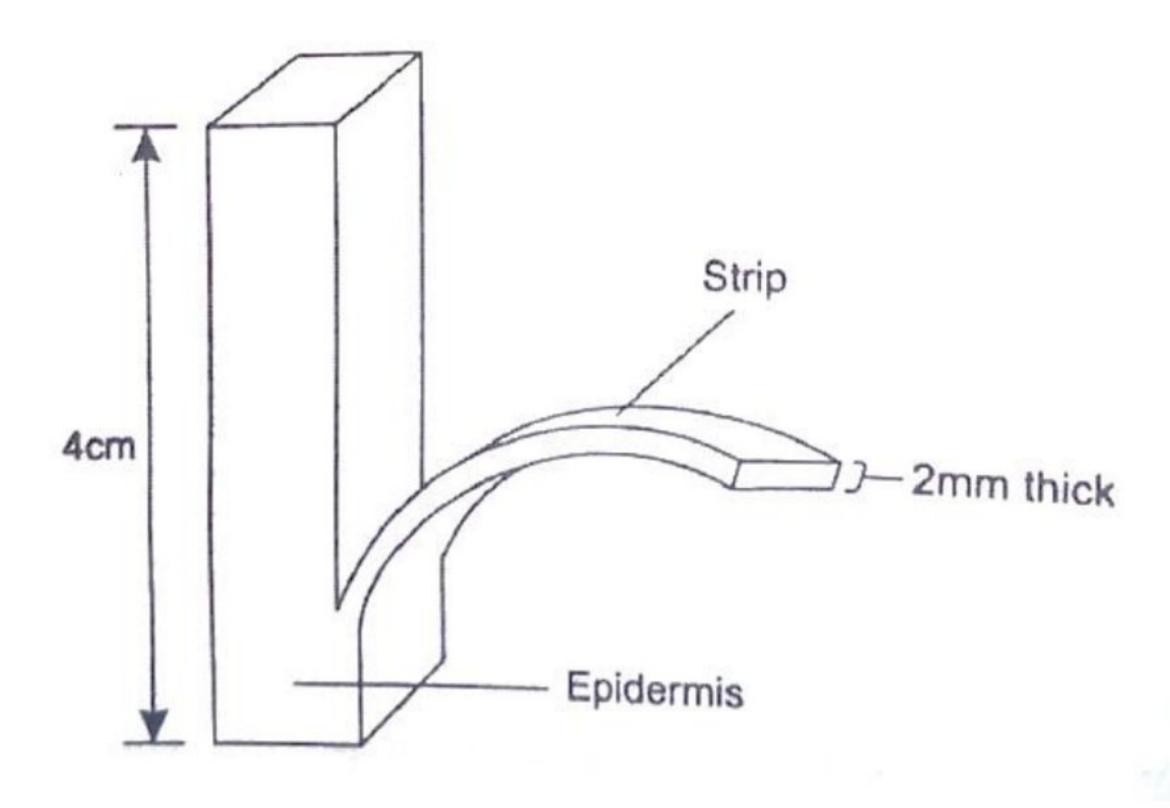
INSTRUCTIONS:

Attempt all questions.

Answers must be written in the spaces provided only

FOR EXAMINER'S USE ONLY		
Question	Marks	Examiners Signature
1		
2		
3		
TOTAL		

1. You are provided with solutions A, B, C and a piece of plant stem. T. You are to carry out test on T, using the solutions, by following the instructions below. Label three Petri dishes A, B and C and fill each of them with corresponding solution. Measure and cut off a piece 4cm long from T. Using a razor blade, evenly peel off 3 strips, each about 2mmThick, along the length of the cut piece (see below). Ensure that each strip has the epidermis.



(a) Put one strip in each of the solutions in the Petri dishes and leave for 20 minutes. After 20 minutes, remove the strip from the solution and Measure the distance between the ends of each strip and record your results in the table provided below. Draw the structure of each strip in the space provided in the table. Label the epidermis.

(6 marks)

		Strips after 20 minutes in solution		
		A	В	C
Distance l	between			
the ends (cm)			
Drawing				
(b) Expl	ain the effec	t of solutions A, B and C	C on the strips.	
(i)	Solution A			(3 marks)
(ii)	Solution B			(3 marks)
(iii)	Solution C			(3 marks)
vite to		ons A, B and C has congive a reason for your ar		almost equal to (2 marks)

.......

		ess to plants.	experiment and state two (3 marks)
importance (n the proce	ess to plants.	(5 marks)
***************************************	•••••		••••••••••••••••••••••••••••••
	. 1 11	·	10 1:1 1
•		specimens P, Q, R an	
			at the specimens P, Q, R and
are leaves. ((02 marks)		
Inggimana D	and O narf	form other angeigl fun	ations in addition to their year
	and Q peri	toriii otner speciai runi	ctions in addition to their usu
unctions.			
i) Describe l	now each o	of the specimens P an	d Q are adapted to their
special fur	nctions	(03 marks)	
•	10110115.	(ob illulio)	
Specimen P			
Specimen Q			

(ii) Basing on observable features, state one function carried out by all
specimens P, Q, R and S. (02 marks)
Function.
Observable feature.
(c) Describe specimen S. (03 marks)

(d) Using characteristic features of the lamina only, construct a dichotomous
key to identify specimens P , Q , R and S . (03 marks)

2		
	orovided with specimens F , G and H . ine the specimens and give three reasons,	for identification of the phylum
to wh	ich they belong.	
Phylu	m; (01 mark)	
Reaso	ons (03 marks)	
30 HTM	rve the mouth parts of specimen F , G and is adapted to its function.	H. Explain two ways in which
(i)	Mouth parts of F	(2 marks)

(e) Draw and label specimen P. state your magnification. (07 marks).

	(ii)	Mouth parts of G	(2 marks)
			*** ***
	(iii)	Mouth parts of H	(2 marks)
	2.700		
() (. .		
(c) (Observ	the thorax of F and G. Give	four differences between F and G .
			(04 marks)
		Specimen F	Specimen G

(d) Draw and label lateral view of head of specimen F, and state your magnification. (6 marks)

S.4 PRE-MOCK3 BIOLOGY PRACTICAL 553/2 INSTRUCTIONS

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CHECKED BY

0750476280/ 0786841094

Each candidate should be provided with the following:

No.1

- 0.3M sucrose solution, labelled A.
- 0.5M sucrose solution, labelled B.

Distilled water, labelled A.

Young black jack stem, labelled T.

3 petri dishes

10 ml measuring cylinder.

A stop clock.

Labels.

A razor blade.

No.2

Bryophyllum leaf, labelled P.

Bean leaf, labelled Q.

Lantana camara leaf, labelled R.

Desmodium leaf, labelled S.

No.3

Mature cockroach, labelled F.

Mature housefly, labelled G.

Mature worker bee, labelled H.