NAME		Tober
RANDOM/F	PERSONAL No.	E INSIGNATURE CARRELL SHOW BELLEGIES AND AND
	P530/3	Marie Committee
(T)	BIOLOGY PRACTICAL	Classify die amenal mic (il.) following term
N MA		
MA	Wednesday 9 th August 2023 (Morning) 3 hours 15 minutes	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1

ACHOLI SECONDARY SCHOOLS EXAMINATIONS COMMITTEE

Joint Mock Examinations, 2023
BIOLOGY PRACTICAL

Paper 3

3 hours 15 minutes

INSTRUCTIONS TO CANDIDATES:

1 1 1 100

- ✓ This paper consists of THREE questions. Answer all the questions.
- ✓ Write the answers in the spaces provided. Additional sheets of paper MUST not be inserted in this booklet,
- ✓ You are NOT allowed to start working within the first 15 minutes. You are advised to use this time to read through the paper and ensure that you have all the apparatus, chemicals and specimens you require.

	For Examiner's Us	e Only
Question	Marks	Examiner's Name & Sign:
1	S	La contrata de la constitución d
2	e de la later e la constantion de	
3	e-species by a segment	andre of the
TOTAL		

© ASSEC 2023

"AND PAIN

Acholi Secondary Schools Examinations Committee

Turn Over

.. much usi (s)

llowing questions:	2/1	ne the animal carefully and answer the
no was questions.		(02 modic)
Classify the anim	al into the following taxa.	(03 marks)
		flugge All
(i) Piylum	<u></u>	india The Land Silver Charles and place In a
		CONTROL OF FIRE
(ii) Qass		
(iii) Order	essential and the second	
Identify the sex of	f the animal and state the features you	have used to identify the sex.
, recitity the sex of	the ainmar and state the features you	(03 marks)
(i) Sex		(02)
(1)		
(ii) Features		
	tures listed below and state the impor	tance of their positions. (12 marks)
(i) Cloaca	•••••	
•		RALLENS TO CONTROL TEST
	W. State Hair. W	
	(A)	AH:
	Majoh riquique com come populações e	- 4 Source on
	e e de la companya de	And the second
		The state of the s
(ii) Ear drum		
		No. 20
•••••		
•••••		
	la especial de la companya de la co	
(iii) Pina	***************************************	
(iii) Eyes	***************************************	*******************************
(III) Eyes		, , , , , , , , , , , , , , , , , , , ,
in) Eyes		

- - (a) (i) Draw one sypical coll occasived from care on a successive as well agos solution Q. Coll.).

(ii) Now proceed to display the vessels draining the left hind limb. Draw and label.
(06 marks)

© ASSEC 2023

Acholi Secondary Schools Examinations Committee

Turn Over

Question 2:

You are provided with solutions P, Q, R and S plus specimen O. The concentrations of solutions P, Q and R are unknown but solution S is of concentration 1.0M. Carry out the following instructions:

all guidence accept to ad upon all base resulted on parties or configurations.

- (i) Obtain a broad strip of the outer epidermis (coloured) from the fleshy leaf of specimen O.
- (ii) Divide the strip into three equal sized portions and transfer onto three glass slides labelled P, Q and R.
- (iii) Using a dropper flood the epidermal strips with the corresponding solutions P, Q and R and leave to stay / stand for 20 minutes before observing under medium power magnification of a microscope.
- (a) (i) Draw one typical cell observed from each set up. Label only the cell from solution Q. Cell P

(ii) Now proceed to it may use the sets drawing one lest best finds. Draw and finell.

(iii) there proceed to it may use the sets drawing one lest best finds.

© ASSEC 2023

Acholi Secondary Schools Examinations Committee

Turn Over

~ 11	\sim
(A	
	•

Cell R	Time of	Mr. Jagan M	tri l	The lateral	10.60
0000			4.12		

(11) State the co	mmon magnification of your	drawing and show how you	have arrived to this (03 marks)
	•••••		
The state of the s		11 计通知图 11. 化	
	observation in (a), arrange of	cells P, Q and R in order	
pressure.	aran <u>Tajudi</u> yalisa ya m	to Charles Secult	(03 marks)
			eller als track to a
	v you have arrived at the order		tall.
			(03 marks)
•••••••••••			
			100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
© ASSEC 2023	Acholi Secondary Schools	Examinations Committee	Turn Over

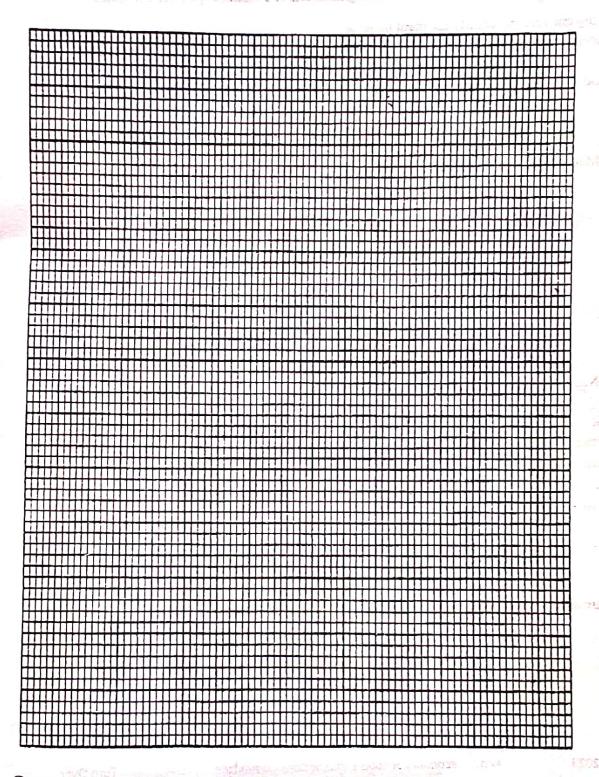
d . A should be to thought and on the Common A. A.

Solution S ₁ S ₂ S ₃ Volume of water (cm ³) (ii) Showing your method, explain how you have determined the	volume o	f water used to
Solution S ₁ S ₂ S ₃ Volume of water (cm ³) (ii) Showing your method, explain how you have determined the make the 0.5M solution.	volume o	f water used to
Volume of water (cm³) (ii) Showing your method, explain how you have determined the make the 0.5M solution.	volume o	f water used to
Solution S ₁ S ₂ S ₃ Volume of water (cm ³) (ii) Showing your method, explain how you have determined the make the 0.5M solution.	volume o	f water used to
Solution S ₁ S ₂ S ₃ Volume of water (cm ³) (ii) Showing your method, explain how you have determined the make the 0.5M solution.	volume o	f water used to
Solution S ₁ S ₂ S ₃ Volume of water (cm ³) (ii) Showing your method, explain how you have determined the make the 0.5M solution.	volume o	f water used to
Solution S ₁ S ₂ S ₃ Volume of water (cm ³) (ii) Showing your method, explain how you have determined the make the 0.5M solution.	volume o	f water used to
Solution S ₁ S ₂ S ₃ Volume of water (cm ³) (ii) Showing your method, explain how you have determined the make the 0.5M solution.	volume o	S ₄ f water used to (03 marks)
Solution S ₁ S ₂ S ₃ Volume of water (cm ³) (ii) Showing your method, explain how you have determined the make the 0.5M solution.	volume o	f water used to (03 marks)
Volume of water (cm³) (ii) Showing your method, explain how you have determined the make the 0.5M solution.	volume o	f water used to (03 marks)
(ii) Showing your method, explain how you have determined the make the 0.5M solution.		(05 marks)
(ii) Showing your method, explain how you have determined the make the 0.5M solution.		(05 marks)
make the 0.5M solution.		(05 marks)
Total Control of the		
(iii) Obtain another strip from the outer epidermis of fleshy leaf of	specimen	O. Flood with
solution S on a glass slide and observe under medium power afte		
number of cells with shrunken cytoplasm out of the ten cells obs		
procedure with solutions S ₁ , S ₂ , S ₃ and S ₄ (use a freshly obtained		
your results in the table below.		(10 marks)
No. of cells with shrunken	cells with	h shrunken
Solution (C) cytoplasm	cytopla	
S_1		
S ₂ average of average of the province of a basic		sa sani ambasil
S ₃	The state of the s	NA REPARTMENTS

 S_4

1 KORTO

(iv) Plot a graph to show the relationship between (P) and the concentration (C of the solutions.



© ASSEC 2023

Acholi Secondary Schools Examinations Committee

Turn Over

Question 3:

You are provided with a plant material X_1 . Cut transverse sections from the specimen. Place the cut section on a glass slide or watch glass and apply three drops of acidified phtoroglucinol stain. Observe the preparation under lower power magnification of a microscope after 5 minutes.

(i) Identity of X ₁	hin i harris in the state of th	(03 marks)
		Malafa to the
Reason:		The state of the s
-		
(ii) Molso on and		
(11) Make an ema	rged plan drawing to show the location of the	stained tissue. (xx marks)
1		
	to the same through the same of the same o	
	hiliping of the things of the same of the same	
The state of the s	in product of the first production of the first produc	
iii) Name the tice	sue and state its functions in the plant.	and the market
MI) I vanio lie tiss	sue and state its functions in the plant.	(03 marks)
	The second secon	
Name		- france - the reported
Functions		

William !		
•••••••		- it has been been a second
tion of the last of		
renare another tr	ansverse section from plant metarial V	
repare another tr	ansverse section from plant material X_2 as illu	strated.
repare another tr	ansverse section from plant material X2 as illu	strated.
repare another tr	ansverse section from plant material X2 as illu	strated.
Prepare another tr	ansverse section from plant material X2 as illu	strated.
Prepare another tr	ansverse section from plant material X2 as illu	strated.
Prepare another tr	ansverse section from plant material X2 as illustrated behole? Lead behole? Along the	strated.
Prepare another tr	ansverse section from plant material X2 as illu	strated.
Prepare another tr	ansverse section from plant material X2 as illu	strated.

	cedure as for plant material X1. Observe und	
(i) Make a plan drawing	to show the distribution of the stained tissue X	(04 marks)
(*) (
(11) Compare the distribu	ution of the stained tissue in X_1 with that in X_2 .	(04 marks)
		40.00
(iii) Attempt to explain	the difference (if any) in the distribution of the	e stained tissue in X ₁
and X_2 .		(04 marks)

		T) ID
		END :
© ASSEC 2023 Ach	holi Secondary Schools Examinations Committee	The End.
701		THE EHU.