Name:	Signature:		
School	Index No.		
P530/3 BIOLOGY	a sa gai sag se tera managade an		
PRACTICAL			
Paper 3			
July/Aug. 2019			
31/4 hours	.pg(0049.75		

BUSHENYI DISTRICT MOCK EXAMINATIONS

Uganda Advanced Certificate of Education

BIOLOGY PRACTICAL

ellements at yet word a Paper 3

3 hours 15 minutes

INSTRUCTIONS TO CANDIDATES:

This paper consists of three questions.

Answer all questions.

All answers must be written in the space provided. Therefore no additional paper should be inserted in this booklet.

Youare not allowed to start working within the first 15minutes. You are advised to use this time to read through the paper and ensure that you have all the apparatus, chemicals and specimens you may require.

For Examiner's Use Only			
Question	Marks	Examiner's signature	
1		The second second second	
2			
3			

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Turn Over

1. You are provided with specimen R w	hich is freshly killed.			
(a) Examine the specimen and by giving two reasons, state its class.				
Class	(03marks)			
Class	CIICAL			
Reasons				
870 0 A 1 A 2 3 A 3	THE STREET STREET STREET			
	Hya'd byanne B.C. Manney C. Certi			
(b) Examine the following parts				
- work	11.			
(i) Hind feet	(Osmarks)			
	STRUCTIONS TO CANDIDATE			

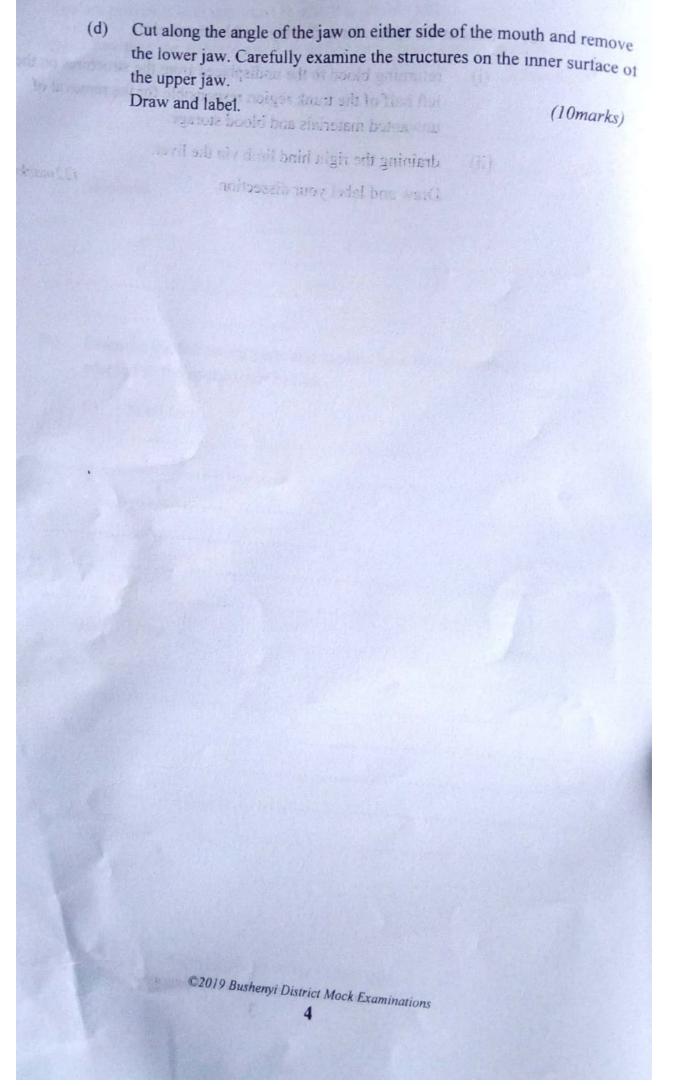
world the sales of the sales of the sales	THE SOURCE SALES AND ADMINISTRATION.			
***************************************	Management of the second secon			
(ii) Trunk	CHICKEN SUCKESS AND AND COMPANY CARRE			
	(03marks)			

VIIIO 32 Fa	The Example of			
······································	Vigestion Vigestion			
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2	Examinations			

Dissect the specimen to display the blood vessels;

Citibin.

- (i) returning blood to the undisplaced from the structures on the left half of the trunk region responsible for the removal of unwanted materials and blood storage.
 - draining the right hind limb via the liver. (ii) (22marks) Draw and label your dissection.



- You are provided with solutions A, B and C. Solutions A and B contain certain food substances. You are required to investigate the effect of solution C on solutions A and B.
 - (a) Carry out the following tests to identify the food substances in the solutions A and B.

Record your test, observations and deductions in Table 1, below.

(15marks)

Table 1

Tests	Observations	Deductions
Benedict's test		
thred or 50 + 40°C for 40.	tubes in a water bar's maint	Encreptive the rest monthless
	harbailen gedod, earry out des	Arthe ded of the
	T ni anotizabab ana apoinsy:	and the second
Hydrolysis test	Operations	Lagitary section

- (b) Obtain four test tubes and label them as 1, 2, 3 and 4.
 - To each of the tubes 1 and 2 add 2cm³ of solution A while to test tubes 3 and 4 add 2cm³ of solution B.
 - To each of the test tubes 2 and 3 add 5 drops of dilute hydrochloric acid.
 - To each of the test tubes 1, 2, 3 and 4 add 2cm³ of solution C.

The summary of the contents of each test tube is shown in Table 2, below;

Table 2

Test tube	Contents
1 per	2cm ³ of A+2cm ³ of C
2	2cm ³ of A + 5 drops of hydrochloric acid + 2cm ³ of C
3	2cm ³ of B + 5 drops of C
4	2cm ³ of B + 2cm ³ of C

Incubate the test tubes in a water bath maintained at 30 - 40°C for 40 minutes.

At the end of the incubation period, carry out a Benedict's on the contents of each of the test tubes.

Record your observations and deductions in Table 3 below. (08marks)

Table 3

Test tube	Observations	Deductions
1		
2		
The State	S. C. Les mod ledel bus errus.	
	with a mace I and 2 wild 2cm, or	
3	Handing to man the Lorent	e treet
STATE OF THE PARTY OF THE PARTY.	rit	
	of the test tubes 2 and 2 and 2 and 5. and 5	

Collow	di die differenc	es in the observations i	f any, made in the
IOHOV	ving tests tubes;		
	1 and 2.		(02marks)
			alaise#k

(ii)	3 and 4.		(02marks)
***************************************			-tritoponer/
	O STATE OF LAND	the active substance in	(02marks)
You are proflowering pl specimens.	vided with speci ants. Using a ha	imens A ₁ , A ₂ , A ₃ and A and lens where necessar	which are parts of ry, examine the
(a) By girspecin	ving two reason mens belong.	s, state the type of plan	t organ to which the (02marks)
		••••••	

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D 4	Specimens		
Part -	A ₁	A ₂	A ₃
Petals			
Stigma		f-box	(11)
Androecium	Maria de la companya della companya della companya della companya de la companya della companya		
for each of t	the following spec		type of pollinat

(a)	speci	regard to pollination state one advantage of the	he stigma of
	(i)	A_1 over that of A_3 .	(01mark)
to synta	ostvala		
simi (I)	(ii)	A_4 over that of A_2 .	
(e)	Remo	ove the outer parts to expose the gynoecium of	f anaciman A
	Draw	and label.	(05marks)
(6)			
(f)	function function	s the androecium of the following specimens ons?	adapted to its
	(i)	A_1	(01mark)
******	••••••		
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	(ii) A, (iii)	01mark)
(g)	With regard to propagation state one ecological advantage specimen A ₁ over A ₄ .	of 01mark)
.,	speciment A over A4.	
	res Remove the mater parts severage the production of a	
(h)	Using the features of the petals, stigma and androecium, co dichotomous key for the identification of specimens A ₁ , A ₂	
		(06marks)
	······································	
		•••••••
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Pi vicen		

Each candidate should be provided with;

A freshly killed toad, labelled R

20cm3 of 2% starch solution, labelled A

20cm3 of 2% sucrose solution labelled B

20cm3 of 5% yeast solutions, labelled C

Solutions A, B and C should NOT have traces of reducing sugars.

The yeast solution should be prepared at least 24 hours prior to the exam

Medium sized Irish potato, labelled U

. Complete flower of Hibiscus, labelled A1

Complete flower of cassia, labelled A2

Complete flower of Banana, labelled A3

Complete flower of morning glory, labeled A4

Easy access to the following should be ensured

10cm³ measuring cylinder

Microscope

Reagents for food test

250cm3 plastic beaker

Hot water

Thermometer

Hydrogen peroxide

Dissecting board/dish

Dissecting set.