NAME: _	ADM NO:
DATE: _	CANDIDATE'S SIGN:
CLASS _	

231/3 BIOLOGY PAPER 3 PRACTICAL JUNE/JULY, 2021 TIME: 1 3/4 HOURS

## **MOKASA 1 JOINT EVALUATION EXAMINATIONS**

**Kenya Certificate of Secondary Education** 

231/3 **BIOLOGY** PAPER 3 PRACTICAL JUNE/JULY, 2021

TIME: 1 3/4 HOURS

## **INSTRUCTIONS TO CANDIDATES**

- Write your Name, Class and Adm No. in the spaces provided above
- Answer ALL the questions in the spaces provided

## FOR EXAMINERS USE ONLY

QUESTION	MAXIMUM SCORE	CANDIDATES SCORE
1		
2		
3		
TOTAL	40	

F	ood Test	Procedure	Observation	Conclusion
(iii)	Divide the mix	• 1	d mortar and dissolve in 4 tions and use them to carry table below:	
ii) 	Give one reaso	n for the above identity		(1mk)
	odine solution, P	with specimen <b>X</b> (Soak estle and mortar, scalpe type of fruit represented		<b>K</b> , Benedict's solution, (1mk)

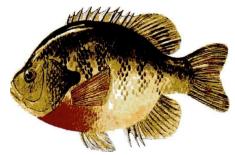
Food Test	Procedure	Observation	Conclusion
Starch			
Reducing sugars			

iv) Account for the observations made in the above table in relation to starch and reducing sugar.	(3mks)
v) Identify the type of placentation in the specimen ${\bf K}$ above	(1mk)
(b) Describe how the above placentation was formed	(2mks)
(c) Using a scalpel, make a transverse section of specimen K. Draw the section of and label (3mks)	its parts

2. Using the pictures of animals provided below, complete the construction of the dichotomous key by filling the blank spaces. (13 marks)



Eagle



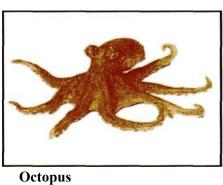
Fish



Earthworm

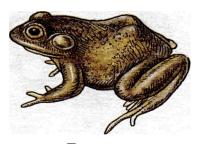


**Tortoise** 



Starfish





Frog

1a Animals with backbone	Go to
2	
b Animals without backbone	
2 a Animals with wings	
b Animals without wings	
3a Animals which live in water all the time	
b Animals which live in water for some time.	
4a Animals with scales	
b Animals without scales.	
5a Animals with legs	· • •
b Animals without legs	Go to
6a Animals with six legs	
b Animals with eight legs	
7a Animals with a shell	.Snail
b Animals without a shell	
8a Animals with jelly-like body	
b Animals without a jelly-like body	
9a Animals with a segmented body	
b Animals without segmented body Octopus	
1	

of the	visking tubing and pour about 2mls of iodine solution into it. Tie the
other e	end making sure no iodine solution leaks and place the visking tubing
into st	arch solution in the beaker. Leave the set up for about 30 minutes and
note th	ne observations
(i)	Account for the observations made after 30 minutes (3mks)
(ii)	Give the role of the physiological process investigated above in:
a.	Reproduction
	(1mk)
b.	Respiration (1mk)
	Name two parts in the alimentary canal where starch is digested mks)
•••	
••••	
dig	Identify one hormone and one digestive enzyme that stimulates gestion of starch in the parts identified in (iv) above mks)
•••	

3. You are provided with starch solution, Iodine solution, Visking tubing,

stirring road, 2 pieces of thread, measuring cylinder and a beaker. Tie one end

(vi)	What deficiency disease results when an individual lacks starch
in their die	et?
(1mk)	