NAME	CLASS	HOUSE	INDEX No
	Can	didates signa	ture

231/3

**Biology** 

Paper 3

(Practical)

Time:  $1\frac{3}{4}HOURS$ 

## **SUKELLEMMO JOINT MOCK 2020**

## Instructions to Candidates

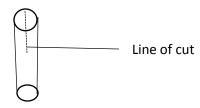
- o Answer ALL the three questions in the spaces provided.
- o Spend the first 15 minutes of the 1 hour & 45 minutes to read through the paper carefully before commencing your work.
- One may be penalized for recording irrelevant information and for incorrect spelling, particularly of *technical* terms.
- o Additional pages must not be inserted.

## For Examiner's Use Only

QUESTION	Maximum Score	Candidate's Score
1	12	
2	15	
3	13	

- This paper consists of 7 printed pages.
- Candidates should check the question paper to ensure that all the pages are printed as indicated and no question is missing.

1. You are provided with two pieces of plant material labelled specimen D. using a scalpel cut a longitudinal section half way through the middle of each piece as shown in the diagram below.



Place one piece in solution labelled  $L_1$  and the other piece in the solution labelled  $L_2$ . Allow the set up to stand for 30 minutes.

(i) Record your observation	(2 marks)
$L_1$	
$L_2$	······································
(b) Examine the pieces.	
(i) Record other observations besides those made in (a) (i) above.	(3marks)
$L_1$	
$L_2$	
(ii) Account for the observation in (a) (i) above.	(5 marks)
(ii) Account for the observation in (b) (i) above.	(3marks)

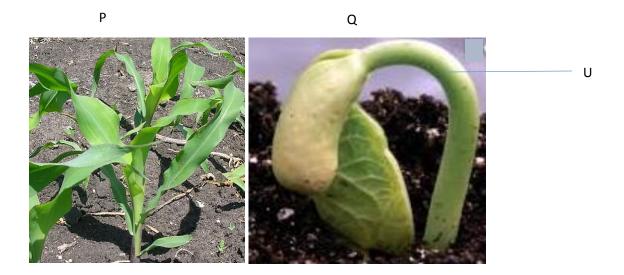
2. You are provided with photographs of specimen M and N. Examine them.

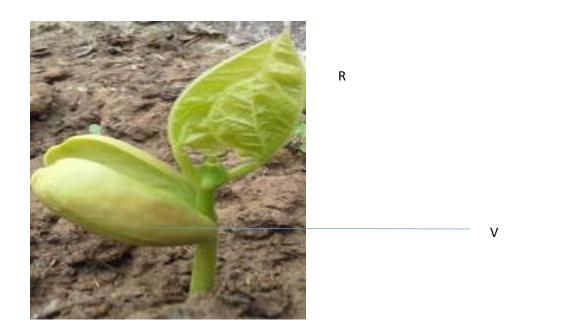


a) Identify the bones.	(2marks)
M	
N	
b) Name the parts labeled X and Y.	(2marks)
X	
Y	

c) State <b>three</b> significance of the part labelled Y.	(3 marks)
Y	
(i)	
(ii)	
(iii)	
d) Calculate the actual size of specimen labelled M. (Show your working).	(3marks)
e) Name the part of the mammalian body from where the specimens were obtain	ned. (1mark)
f) State with reasons the type of joint formed at the proximal and d (4marks)	listal end of M
Proximal end	
Reason.	
Distal end.	
Reason	

## 3. a) The photographs below are for specimen labelled P,Q and R.





(i) State with a reason the class to which specimens P belongs.	(3 marks)		
P			
Reason			
(ii) What type of germination is exhibited by Q?	(2marks)		
Q			
Give a reason for your answer.			
(iii) Name the parts labelled U and V on the photographs above.	(2marks)		
U	······		
V	······		
3. (b) The diagrams below shows the photographs of specimens A and B			
A			
В			
*			
(b) (i) Using observable features only, state the class to which the specimen	in photographs A		
belongs.	(1mark)		
	······································		
(ii) Give a reason for your answer.	(1mark)		

b) (iii) State the habitat in which the specimen in photograph B is found.					(1mark)							
b) (IV		Identify	the	stage	of	development	of	the	specimen	in	photograph	В
(v) G	ive	a reason 1	for yo	ur answ	er in	(b) (iv) above.					(1ma	 urk)