Name:	Index No:
553/2	
Biology	
Paper 2	
July/August 2022	
2hours	

BUGANDA EXAMINATIONS COUNCIL MOCKS

Uganda Certificate of Education

BIOLOGY (Practical)

PAPER 2

2HOURS

INSTRUCTIONS TO CANDIDATES

- o Attempt all questions.
- o All drawings must be made in the spaces provided.
- o Drawings should be made with a sharp pencil.

FOR EXAMINER'S USE ONLY		
Question 1		
Question 2		
question 3		
TOTAL		

1.	You are provided with solutions of different concentration labeled A , B and C and specimen P . Follow the procedure below for accurate experimental result.			
(a) (i)	Procedure With a cork borer, cut four cylinders from specimen P and trim them to 4cm long.			
(ii)	Label four test tube as			
(iii)		s A, B and C into corre	sponding test tubes.	
(iv)	Gently drop one cylind		1 0	
(v)	• •	l in test tubes for 30 mi	nutes.	
(vi)	•		abel them using the cor	responding test tube
` '	labels for easy identifi		C	1 0
(vii)	•		difference in texture a	nd turgidity in table 1
` ′	below.			(04 marks)
	Table 1			
	Cylinder	A	В	С
	Texture			
	Turgidity			
(b)		Feel the cylinders A , B and C with your hands and explain their differences in their turgidity in relation to cylinder D .		
	Cylinder A			(03 marks)
	Cylinder B			(03 marks)

	Cylinder C	(02marks)
(c)(i)	Give three significance of the process involved in experiment 1(a) above	to plants. (03marks)
(ii)	Give significance of difference in turgidity of cylinder A and C in table 1	above to plants. (03marks)
(a)	You are provided with specimens labeled R and Q . Gently pluck off and structures of specimen R and Q basing on remaining parts of specimens With reasons, identify the plant part represented by specimens R and Q . Plant part	
	Reasons	
(b)(i)	Describe the structure of anthers and filament of specimen Q	
	Filament of specimen Q	(02marks)

	Anthers of specimen Q			(02marks)
	(ii)	Give adaptations of androecia of s (03marks)	specimen Q to their funct	ion.
(c)	Outli	ne the differences between specimen	1 Q and R basing on their	remaining parts. (03marks)
Speci	men Q		Specimen R	
(d)(i)		reasons state the type of pollination of pollination	for specimen R .	(03marks)

	Reasons	
(ii)	Draw and label the remaining floral structures of specimen R .	(05marks)

3.	You are provided with specimen labeled M and E .	
(a)	With a reason identify the phylum of specimen \mathbf{M} .	(04marks)
	Phylum of specimen M	
	Reasons	
(b)(i)	Describe the structures of specimen E .	(02marks)
(ii)	State how specimen E is adapted to living in its habitat.	(04marks)

(c)	Give four difference between specimen E and M .		(04marks)	
	Specimen E	Specimen M		
(1)(')	With a reason suggest the feeding habits	of specimen M	(02marks)	
(d)(i)	With a reason suggest the feeding habits of specimen M . Feeding habit of specimen M		(O2marks)	
	Reasons			

(ii)	Draw and label the main front body part of specimen \mathbf{M} from its lateral view. (04marks	;)
	END	