Name:	Centre/ Index No
School	Signature:

553/3
BIOLOGY
Practical
PAPER 3
July/August 2017
2¹/₂hours



WAKISSHA JOINT MOCK EXAMINATIONS

Uganda Certificate of Education BIOLOGY

(Practical)

Paper 3

2hours

INSTRUCTIONS TO CANDIDATES:

- This paper consists of **three** questions.
- Answer **all** questions.
- Drawings should be made in the spaces provided.
- Use sharp pencils for your drawings.
- Coloured pencils or crayons should **not** be used.
- No additional sheets of writing paper are to be inserted in the booklet.
- Work on additional sheets will **not** be marked.

FOR EXAMINER'S USE ONLY.

Question	Marks	Examiner's No. & Initials
1		
2		
3		
TOTAL		

- 1. You are provided with solutions A and B which are extracts prepared from different parts of different plant.
 - (a) Carryout the tests in the table below to determine the food nutrients present in each extract. Record your observations and deductions. (16 marks)

TEST	EXTRACT	OBSERVATIONS	DEDUCTIONS
(i) To 1cm ³ of extract in a test tube, add 3	A		
drops of iodine solution.	В		
(ii) To 1cm ³ of extract in a test tube, add 1cm ³	A		
of Benedict's Solution and boil.	В		
(iii) To 1cm ³ of extract in a test tube, add 1cm ³ of dilute Sodium hydroxide solution,	A		
followed by 4 drops of copper (II)sulphate solution and shake.	В		
(iv) To 1cm ³ of DCIP in a test tube, add the	A		
extract drop wise.	В		

(b)	Suggest the part of the plant from which each extract was prepared. Explain your answer. (04 marks)
	Extract A;
	Explanation;
	Extract B;
	Explanation;

	which extract A Give a reason for Function;		(02 mark
	Reason;		
	•••••		
	•••••		
	•	specimen D and E both obtained	
(a)	Basing on obser	vable features, identify each speci	imen. (04 marks)
	SPECIMEN	IDENTITY OF SPECIMEN	OBSERVABLE FEATURES
	D		
	Е		
	~: ·	1 1 01 1	10 111 1 5 15
b)	-	ons, suggest the class of the anim	nal from which specimens D and E (02 mark)
b)	were obtained.		(02 mark
0)	were obtained. Class;		-
b)	were obtained. Class; Reasons;		(02 mark
b)	were obtained. Class; Reasons;		(02 mark
	were obtained. Class; Reasons;		(02 mark
(b) (c)	were obtained. Class; Reasons;		(02 mark
	were obtained. Class;	features of specimen E adapt it fo	(02 mark
	were obtained. Class;	features of specimen E adapt it fo	or its function. (02 mark

(d)	Observe the two specimens D and E and state four structural different	ices between them.
		(04 marks)

SPECIMEN D	SPECIMEN E

(e)	Draw and label the upper region of specimen E. State your magnification	ion.
		(06 marks)

		_	nally and specimen Q transvers	•	(04 m o nlvo)
(a)		ECIMEN	TYPE OF FRUIT	OBSERVABLE F	
		P			
		Q			
		R			
		S			
(b)	(i)	Observe sp	ecimen Q and describe the arra	ngement of its seeds.	
	(ii)	Describe th	e pericarp of specimen P.		(02 marks)
(c)		ribe how the fimen P;	following specimens are dispers	sed.	(04 marks)
	Speci	men S;			
	•••••				• • • • • • • • • • • • • • • • • • • •

You are provided with specimens P, Q, R and S which are fruits.

3.

(d)	(i)	Basing on the features of the pericarp only, construct a dichotomou identify the specimens P, Q, R and S.	s key to (03 marks)
	(ii)	Draw and label the longitudinal section of specimen P.	(05 marks)