	Centre Number	Candidate Number		
Candidate Name				

EXAMINATIONS COUNCIL OF ZAMBIA

Joint Examination for the School Certificate and General Certificate of Education Ordinary Level

BIOLOGY

5090/3

PAPER 3 Practical Test

Monday

17 OCTOBER 2011

1 hour 15 minutes

Additional materials:
As listed in instructions to Supervisors.

TIME: 1 hour 15 minutes

INSTRUCTIONS TO CANDIDATES

Nrite your name, centre number and candidate number in the spaces provided at the top of this page.

There are two questions in this paper.

Answer both questions.

Write your answers in the spaces provided on the question paper.

Jse sharp **HB** pencils for your drawings. Coloured pencils and crayons should **not** be used.

INFORMATION FOR CANDIDATES

The number of marks is given in brackets [] at the end of each question or part question.

Cell phones are not allowed in the examination room.

FOR EXAMINER'S USE	
1	
2	
Total	

Answer all the questions.

1	was	extr	provided with solutions A and B . You are also provided with solution Q which acted from the digestive system of a bird. Add 3 drops of solution Q to 1 cm A and solution B , respectively. Shake gently.				
	(a)	Record your observations.					
			Solution A:	[1]			
			Solution B:	[1]			
		(ii)	Record the conclusion from your observation.				
			Solution A:	[1]			
			Solution B:	[1]			
		(iii)	State the organ in the digestive system where the process observed in (a) above takes place.	(i)			
				. [1]			
		(iv)	Explain why solution B was used in the experiment.				
		135000		[1]			
		(v)	Identify solution Q				
		• •		[1]			
		(vi) State the significance of solution Q in the digestive system of an animal.					
				[1]			
	(b)		te the class, phylum and kingdom of specimens W24 and W25. Provide rea				
		for the classification. Use the table provided below for your answers.					
			Specimen				

Specimen	W24	W25	Reasons
Class			W24:
		W25:	
Phyllum		W24:	
		W25:	
Kingdom		W24:	
		W25:	
			1

[12]

[Total 20]

(a) (i)	State two observa	able structural similarities i	n specimens W30 and W31 .
(ii)	State three visible the table below.	structural differences bet	ween W30 and W31 by complete
	Specimen.	W30	W31
	1		
	2		
	3		
(iii)	i) To which class of	plants does W30 and W3 1	belong?
	1. W30		
	2. W31		
(iv)) State the type of r	oot system found in each	of the specimens W30 and W31
	1. W30		
	2. W31		***************************************

pro	Make a large labelled drawing of the transverse section of W30 in the space vided below.				
	[7]				
(ii)	Using a ruler, measure specimen W30.				
	Measurement of W30 [1]				
(iii)	Calculate the magnification of your drawing (show your working)				
	Calculation:				
	Magnification =[3]				
	[Total 20]				

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