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Candidate Name	П						
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EXAMINATIONS COUNCIL OF ZAMBIA

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

BIOLOGY

5090/3

PAPER 3 Practical Test

Friday

19 OCTOBER 2012

Additional materials:
As listed in Instructions to Supervisors.

TIME: 1 hour 15 minutes

INSTRUCTIONS TO CANDIDATES

Write 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.

Use 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.

- You are provided with solution S1 which contains a nutrient. Divide solution S1 equally into two test tubes labelled T1 and T2. Also provided is a solution labelled J.
 - (a) (i) Test Solution T₁ for starch.

SOLUTION	TEST METHOD	OBSERVATION	CONCLUSION
Ti .			

[5]

(ii) Test a drop of juice from specimen J for starch.

•		
J		
555		

[2]

(iii) Test solution T2 for reducing sugar.

SOLUTION	TEST METHOD	OBSERVATION	CONCLUSION
2			

[5]

(b) Test juice from specimen J for reducing sugar. Construct a table in which your test method, observations and results will be recorded.

[8]

[Total 20]

2	side	e of t	in transverse sections of the petiole of P2 . Add a drop of lodine solution on on the transverse section laid out on blotting paper. Allow the treatment to standard econds.	
	(a)	(i)	What happens to the transverse section after adding iodine solution?	[1]
		(ii)	Make a large labelled drawing of the stained transverse section.	
		(iii)	What conclusion can be made about the observed results after adding iodine	[6] e
			solution?	1]

	f 4				
(p)	(i)	Measure the d	iameter of the stained t	ransverse section of P	2.
		Measurement:			[
	(ii)	Measure the d made in (a) (i)	liameter of the drawing above:	of the transverse secti	on of specimen P2
		Measurement:			[
	(iii)	Calculate the	magnification of the dra	wing and show your w	orking.
					[3
					L
		a minimilm of	o	an of the notice of D2	Suspend sections
(c)			three transverse sectio		
(c)		cm ³ Benedicts	solution in a test-tube.	Test the sections for r	educing sugar.
(c)		cm ³ Benedicts		Test the sections for r	educing sugar.
(c)	in 2	cm ³ Benedicts	solution in a test-tube.	Test the sections for r	educing sugar.

SPECIMEN	TEST METHOD	OBSERVATION	CONCLUSION
1			

[7]

[Total 20]

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