	Centre Number	Candidate Number
Candidate Name:		

EXAMINATIONS COUNCIL OF ZAMBIA

Examination for General Certificate of Education Ordinary Level

Biology

5090/3

Paper 3 Practical Test

Friday

29 JULY 2016

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 EXAMI	NER'S USE
1	
2	
Total	

You are provided with food material A.

Transfer two spatula fulls of food material **A** into the beaker labelled **A1**. Add 50cm³ of distilled water to **A1** and shake the contents.

(a) (i) Test 2cm³ of solution A1 for reducing sugars and record the results in the table provided below.

Reagent(s)	Volume of test reagent(s)	Observation(s)	Conclusion

(ii)	Describe the method you used to obtain the results in Part (a) (i) above.
	[1]
(iii)	Explain what the observation has shown in terms of sugar content of solution A1 .
	F41

(b) Test 2cm³ of solution A1 for the presence of proteins and record the results in the table below.

Reagent	Volume of test reagent	Observation(s)	Conclusion
		li i	

(c) (i) Place food materials of A1 on a white tile and carry out the test for starch and complete the table below.

Reagent	Volume of test reagent	Observation(s)	Conclusion
		1	

	[4]
(ii) Explain why the food material was placed on a whi	te tile.
	[2]
 State the use of reducing sugars in animals. 	
	[1]
(ii) State one storage organ for starch in plants.	
	[1]
(iii) Explain why the food sample A was ground to small	Il pieces.
	[2]
	[Total: 20]

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2

(a)	(i)	Make a drawing of specimen M1 and label any four parts.
	.,	time a diaming of specimen Fiz and ober any loar parts.

		8]
	(ii)	Measure the widest part of the drawing and draw a line where the measurement was taken.
		Measurement of drawing[2
		TO THE STATE OF TH
(b)	Calcu	late the magnification of the drawing.
(b)	Calcu	late the magnification of the drawing.
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(b)	Calcu (i)	Magnification =[3]
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