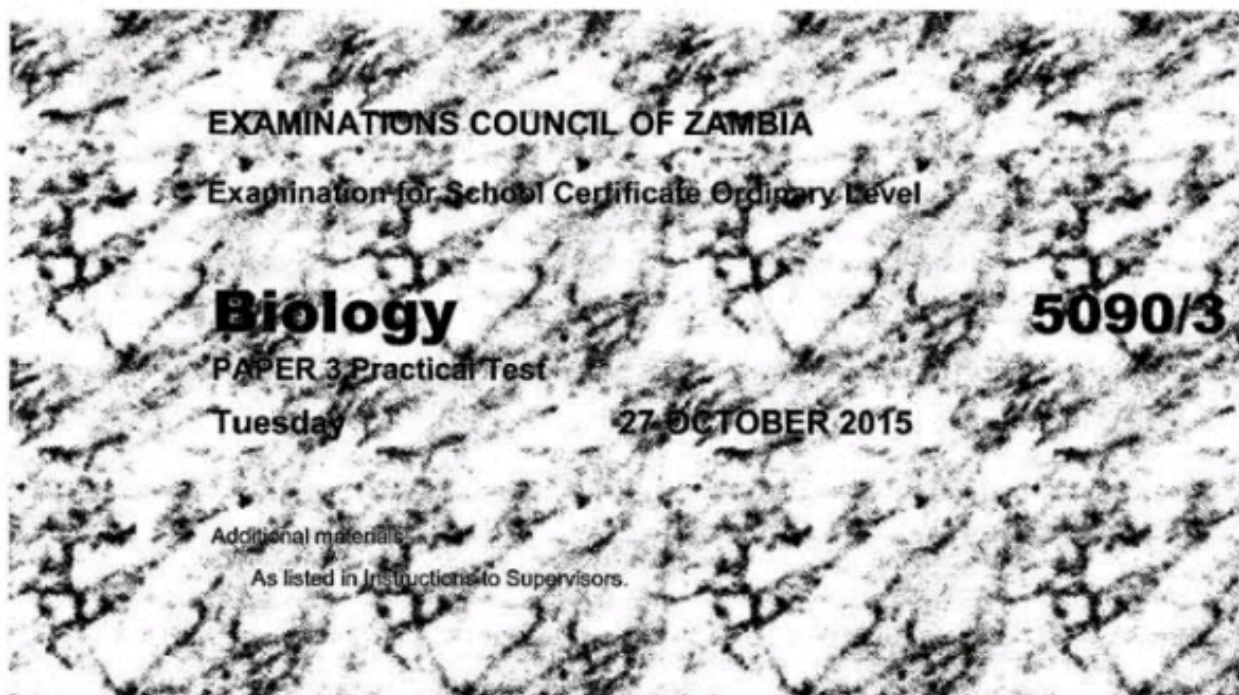


Candidate Name: _____

Centre Number		Candidate Number									



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	

- 1 (a) You are provided with specimen **W1**. Crush it in a mortar and prepare a 5cm³ filtered liquid extract. Put the extract in the test tube labelled **Filtrate**.

Pour 2cm³ of the filtered solution in each of two test tubes labelled **A** and **B**. Carry out the test for proteins and reducing sugars using the solutions in the test-tubes.

Nutrient for testing	Test method	Observation(s)	Conclusion
Reducing sugar			[5]
Proteins			[5]

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- (b) A human eye has a standard length of 3.5 cm.
- (i) Make a labelled drawing of the eye with the aid of a mirror. Show clearly as many visible structures as possible.

[6]

- (ii)** Measure and record the length of the drawing. (Draw a line on the diagram to show the measured length of the drawing.)

..... [1]

- (iii)** Calculate the magnification of the drawing.

[2]

Magnification..... [1]

[Total: 20]

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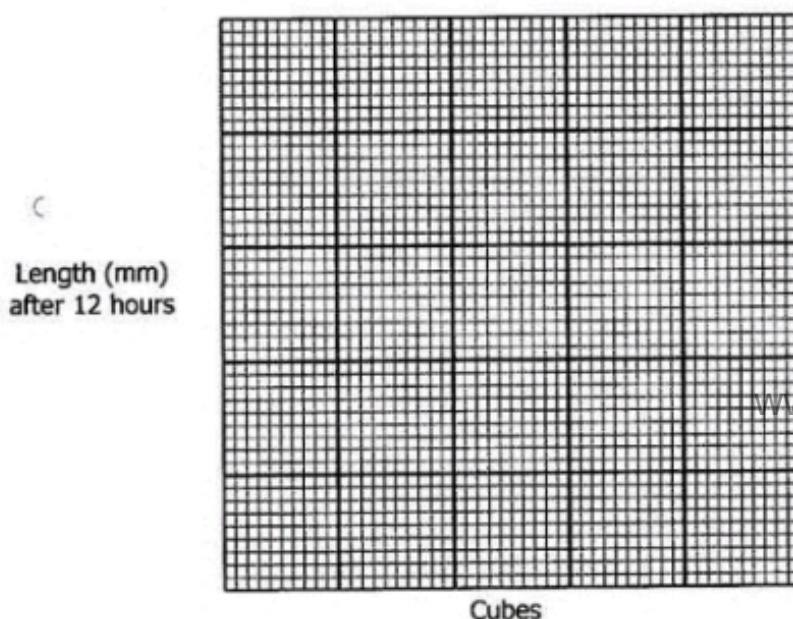
- 2 You are provided with three Irish potato cubes placed in three different 250 cm³ beakers labelled **A**, **B** and **C**. The potato cubes in **B** and **C** have been in the solutions for 12 hours while cube **A** has not been in any solution.

- (a) Measure the length of each cube (dry each cube before weighing). Complete the table below using the lengths obtained.
(Use the length of cube **A** as the initial length).

Cubes	A	B	C
Initial Length			
Length after 12 hours			

[3]

Given the graph below, plot the results of the table above.



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[5]

- (b) Provide an explanation for the observation made in each case.

A: Observation
Explanation [2]

B: Observation
Explanation [2]

C: Observation
Explanation [2]

- (c) Describe the texture of each cube by feeling it with your fingers.

A
B
C [3]

(d) State a reason for the texture in each of the three cubes in (c) above.

A

B

C [3]

(e) Name the processes responsible for the texture felt in cube **B** and **C**.

B

C [2]

[Total: 20]