

Candidate Name \_\_\_\_\_

Centre Number			Candidate Number																	

## EXAMINATIONS COUNCIL OF ZAMBIA

Examination for General Certificate of Education Ordinary Level

# Biology

## Paper 3 Practical Test

**5090/3**

**Wednesday**

**12 JULY 2017**

**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.

### 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	
<b>1</b>	
<b>2</b>	
<b>Total</b>	

**Answer both questions**

**1** You have been provided with solution **A**, **B** and **C**.

**(a)** Carry out a reducing sugar test on each of the solutions provided.

**(i)**

Solution	Method	Observation	Conclusion
<b>A</b>			
<b>B</b>			
<b>C</b>			

[9]

**(ii)** State the blood vessel leading to the liver from which the solution in **A** could have been extracted.

..... [1]

**(iii)** State the blood vessel leading to the liver from which the solution in **B** could have been extracted.

..... [1]

**(iv)** State the function of the nutrient found in solution **A**.

..... [1]

**(v)** State the hormone related to regulation of the nutrient in solution **A**.

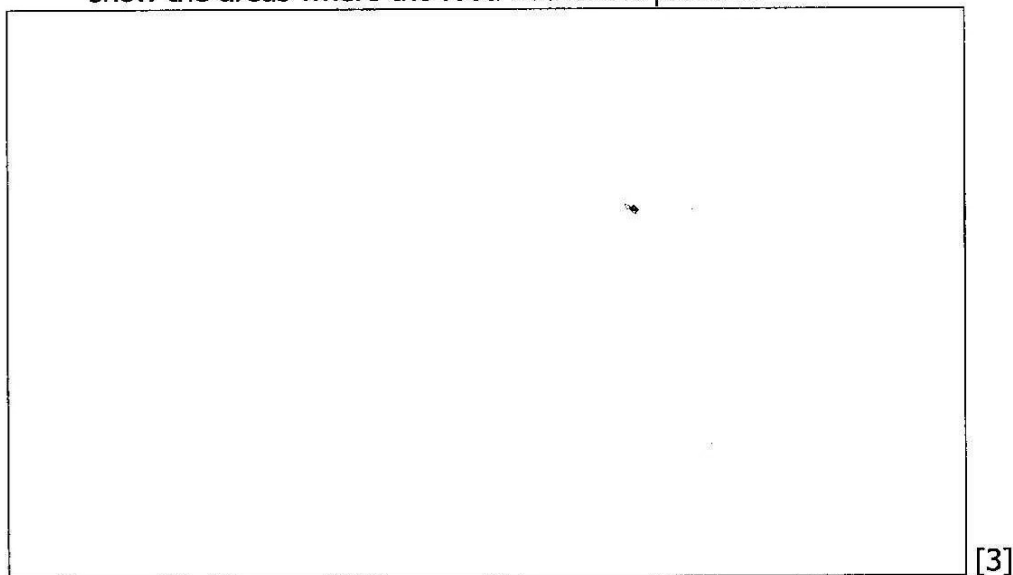
..... [1]

**(b)** You are provided with specimen **W29**.  
Put a few drops of iodine solution to cover the cut surface of the specimen.

**(i)** State the food nutrient found in specimen **W29** as shown by the test.

..... [1]

**(ii)** Draw an outline of the cross section of specimen **W29** and show the areas where the food nutrient is present.



**(iii)** Explain how the food nutrient in specimen **W29** is used as a source of energy in plants.

.....  
.....  
.....  
.....  
.....

[3]

**[Total: 20 marks]**

2 You are provided with specimen **W30** and **W31**, which are fruits from dicotyledonous plants.

(a) (i) Describe how specimen **W30** disperses its seeds.

.....  
.....  
.....  
.....

[4]

(ii) State the type of dispersal found in specimen **W30** and **W31**.

**W30** .....

[1]

**W31** .....

[1]

(iii) Give a reason for your answer in (a)(ii) above.

**W30** .....

[1]

**W31** .....

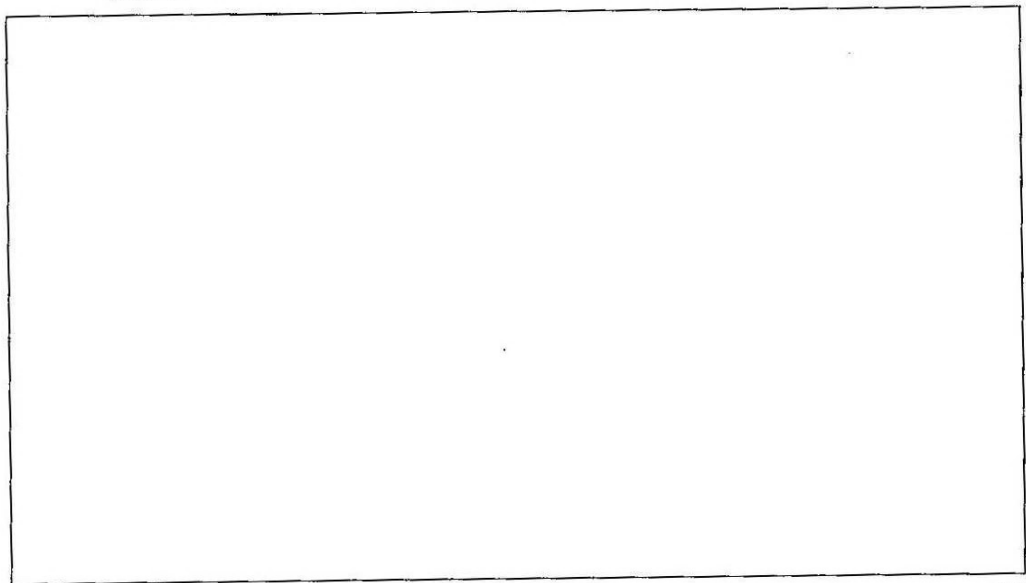
[1]

(b) (i) Measure and record the diameter of the longitudinal section of specimen **W31**.

.....

[1]

(ii) Make a large labelled diagram of the longitudinal section of specimen **W31**.



[7]

(iii) Measure and record the diameter of the drawing.

.....

[1]

**(iv)** Calculate the magnification of your drawing using the measurements obtained above.

.....  
.....  
.....  
.....

[3]

**(c)** Explain why specimen **W31** is referred to as a false fruit.

.....  
.....

[1]

**[Total: 20 marks]**

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