EXAMINATIONS COUNCIL OF ZAMBIA

Examination for General Certificate of Education Ordinary Level

Biology
Paper 3 Practical Test

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

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This question paper consists of 5 printed pages
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) 
<table>
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<th>Solution</th>
<th>Method</th>
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<th>Conclusion</th>
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<tbody>
<tr>
<td>A</td>
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   (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.

........................................................................................................... [3]

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

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........................................................................................................... [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]
........................................................................................................
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........................................................................................................ [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.
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................................................................................................................................................ [3]

(c) Explain why specimen W31 is referred to as a false fruit.
................................................................................................................................................ [1]

[Total: 20 marks]
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