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THE UNITED REPUBLIC OF TANZANIA
NATIONAL EXAMINATIONS COUNCIL
DIPLOMA IN SECONDARY EDUCATION EXAMINATION

BIOLOGY 2A
(ACTUAL PRACTICAL A)

33/2A

ime: 3 Hours

Tuesday, 14th May 2013 a.m.

Instructions

This paper consists of **three (3)** questions.

Answer **all** questions.

Question number 1 carries 40 marks and the rest carry 30 marks each.

Cellular phones are **not** allowed in the examination room.

Write your **Examination Number** on every page of your answer booklet(s).

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1. Open the abdominal cavity of specimen **H** in the usual way to display the arterial system.

   (a) Draw a neat well labelled diagram of your dissection.

   (b) Name the parts responsible for the supply of blood to the following:

      (i) Lungs
      (ii) Head
      (iii) Neck and arms
      (iv) Kidney
      (v) Intestine and rectum
      (vi) Hind limbs

   (c) Name the contents of the blood carried to the body parts listed in I(b) above.

   (d) **Leave your dissection properly displayed for assessment.**

2. A Biology student at Napambana Secondary School prepared solutions containing various food substances. Unfortunately the solutions were wrongly labelled as follows:

   Solution **A** Glucose

   Solution **B** Sucrose

   Solution **C** Protein

   (a) Use the chemicals and reagents provided to identify the food substances present in solution **A**, **B** and **C**. Tabulate your work as shown in the following Table:

FOOD TESTED	PROCEDURE	OBSERVATION	INFERENCE

   (b) (i) Among the food substances identified in (a) above, which one reduces copper II ions into copper I oxide.
      (ii) Briefly analyse its general characteristics.
      (iii) Identify the main components which constitute the food substance.
      (iv) Write its general formula.
      (v) Suggest the source where the food substance were extracted.

   (c) (i) Name the food substance identified in (a) which is a major component of collagen and keratin materials. scleroproteins
      (ii) State four roles the food substance in the body.

3. Study specimen **X**, **Y** and **Z**.

   (a) Write the common names of specimen **X**, **Y** and **Z**.

   (b) Classify specimen **X**, **Y** and **Z** to the class level.

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(c) Outline three economic importance of specimen **Y**.

(d) State the habitat for specimen **X**.

(e) What observable features can you use to place specimen **Z** into its respective division?

(f) Make a neat, well labelled diagram of specimen **Z**.

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