231/3 (b) Inst. Sc.
BIOLOGY
Paper 3
PRACTICAL
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THE KENYA NATIONAL EXAMINATIONS COUNCIL
Kenya Certificate of Secondary Education
BIOLOGY
Paper 3
PRACTICAL

INSTRUCTIONS TO SCHOOLS

The information contained in this paper is to enable the head of the school and the teacher in charge of Biology to make adequate preparations for this year's Biology Practical examination.

***NO ONE ELSE** should have access to this paper or acquire knowledge of its contents. Great care **MUST** be taken to ensure that the information herein does not reach the candidate either directly or indirectly. The teacher in charge of Biology should **NOT** perform any of the experiments or give any information related to these instructions to the candidates.*

This paper consists of 2 printed pages.

1. Each candidate will require the following:

   (a) 3 cm^3 of substance **F** supplied in a test-tube;
   (b) 3 cm^3 of substance **H** supplied in a test-tube;
   (c) 3 cm^3 of distilled water labelled substance **G** supplied in a test-tube.

2. Preparation of substances **F** and **H**.

   (a) SUBSTANCE F

   Substance **F** is prepared by dissolving the tablet or tablets of **F** provided in the correct volume of **distilled water**.

   1. If **one** tablet of **F** is provided:

      (a) place the tablet in a 250 ml **plastic** beaker;
      (b) add **100.0** cm^3 of **distilled** water;
      (c) using a glass rod, stir the mixture until **all** the tablet dissolves;
      (d) label it as **substance F**.

   2. If **two** tablets of **F** are provided, dissolve them in **200.0** cm^3 of **distilled** water.

   3. If **three** tablets of **F** are provided, dissolve them in **300.0** cm^3 of **distilled** water.

   4. If ***x*** tablets of **F** are provided, dissolve them in **100*x*** cm^3 of **distilled** water.

   (b) SUBSTANCE H

   Substance **H** is prepared by dissolving the tablet or tablets of **H** provided in the correct volume of **distilled water**.

   1. If **one** tablet of **H** is provided:

      (a) place the tablet in a 250 ml **plastic** beaker;
      (b) add **100.0** cm^3 of **distilled** water;
      (c) using a glass rod, stir the mixture until **all** the tablet dissolves;
      (d) label it as **substance H**.

   2. If **two** tablets of **H** are provided, dissolve them in **200.0** cm^3 of **distilled** water.

   3. If **three** tablets of **H** are provided, dissolve them in **300.0** cm^3 of **distilled** water.

   4. If ***x*** tablets of **H** are provided, dissolve them in **100*x*** cm^3 of **distilled** water.

   NOTE: After adding distilled water, it may be necessary to **carefully** break the tablet or tablets using the glass rod to facilitate dissolution.

   The 250 ml plastic beaker can be used repeatedly or replaced by a larger one depending on the number of tablets provided.