**BIOLOGY PRACTICAL**

**SUKELLEMO JOINT MOCK JULY 2019**

***This document must not be seen by the candidates whatsoever***

**CONFIDENTIAL INSTRUCTIONS TO SCHOOLS**

**In addition to the apparatus and reagents found in a laboratory, each candidate will be required to have the items listed below:**

* + About 15ml of starch suspension labelledLiquid X
  + About 1ml of iodine solution supplied with a dropper
  + About 10 ml of Benedict’s solution
  + About 1ml of 2M hydrochloric acid supplied with a dropper
  + 2 Droppers
  + 10 ml measuring cylinder
  + A spatula
  + Means of heating/Bunsen burner
  + 6 test-tubes
  + An empty small beaker
  + Thermometer
  + Test-tube holder
  + 1 boiling tube
  + About 3 ml of sodium hydroxide solution
  + 3 labels
  + A white tile/petri dish
  + Water bath
  + Diastase/ amylase enzyme (0.5g per student) labeled **Q**
  + A stop watch/access to a wall clock
* A piece of Lung (about 20 cm3) obtained from a mammal like a cow or goat labeled specimen **T.**
* Provide specimen T on a Petri-dish or on a flat surface.
* A gill obtained from a fresh bony fish like Tilapia labeled specimen **R**.

**N/B:**

***Liquid X is prepared by dissolving 5g of soluble starch in 50ml of distilled water, thorough stirring is required whenever it is being used.***