THE UNITED REPUBLIC OF TANZANIA NATIONAL EXAMINATIONS COUNCIL CERTIFICATE OF SECONDARY EDUCATION EXAMINATION

033/2A

BIOLOGY 2A (ACTUAL PRACTICAL A)

(For Both School and Private Candidates)

Time: 2:30 Hours

Friday, 08th November 2013 a.m.

Instructions

- 1. This paper consists of two (2) questions. Answer all the questions.
- 2. Each question carries 25 marks.
- Except for diagrams which must be drawn in pencil, all writings should be in blue or black ink.
- 4. Calculators and cellular phones are not allowed in the examination room.
- 5. Write your Examination Number on every page of your answer booklet(s).



- 1. You have been provided with solution B.
 - (a) Identify the food substances present in solution B by using the reagents provided.

 Tabulate your work as shown in the following Table:

Food tested	Procedure	Observation	Inference

- (b) For each food substance identified in 1(a);
 - (i) Name two common sources.
 - (ii) State their role in the body of human being.
- (c) The digestion of one of the identified food substance in 1(a) starts in the mouth.
 - (i) Name this food substance.
 - (ii) Identify the enzyme responsible for its digestion in the mouth.
- (d) The digestive system of human being has several parts.
 - (i) Name the part of digestive system in which most of digestion and absorption of food takes place.
 - (ii) Explain how the named part in (d) (i) is adapted for absorption of digested food substances.
- 2. You have been provided with specimens S₁, S₂, S₃ and S₄.
 - (a) Use the hand lens to observe these specimens then:
 - (i) Identify specimen S₁, S₂, S₃ and S₄ by their common names.
 - (ii) Classify specimen S₁, S₂ and S₃ to Class level.
 - (b) Study specimen S₃ carefully then answer the following questions:
 - (i) Draw a neat, large and well labeled diagram of specimen S₃.
 - (ii) State the habitat of specimen S₃.
 - (iii) In what ways is specimen S₃ important to a farmer?
 - (c) State two advantages of specimen S₁.
 - (d) State four advantages of specimen S4
 - (e) Give reason why specimen S₄ was formally placed in the Kingdom Plantae?