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

033/2A

BIOLOGY 2A ALTERNATIVE A PRACTICAL

(For Both School and Private Candidates)

TIME: 2:30 Hours

Wednesday 7th, October 2009 a.m.

Instructions

- 1. This paper consists of **two (2)** questions.
- 2. Answer all questions.
- 3. Each question carries 25 marks.
- 4. Except for diagrams which must be drawn in pencil all writing should be in blue/black/ball point pen.
- 5. Electronic calculators are **not** allowed in the examination room.
- 6. Cellular phones are **not** allowed in the examination room.
- 7. Write your **Examination Number** on every page of your answer booklet(s).

This paper consists of 2 printed pages.

Starch - doudenum (Small hute)

Reducing and non-Restruins (Small hute)

Stone

(a)

You are provided with solution S_1 . Carry out experiments to identify the food substances present in it. Record your procedure, observation and inferences as shown in the table below.

| Test for | Procedure | Observation | Inference |
|----------|-----------|-------------|-----------|
| | | | |
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- (b) (i) Name the food substances you have identified.
 - (ii) State two (2) sources of each food substance named in 1(b) (i) above.
 - (iii) Mention one (1) role of each food substance you have identified.
- In which parts of the digestive system are the above mentioned food (c) substances digested? In each case mention the enzyme and the products.
- 2. Using a hand lens examine specimen A₁.
 - Identify specimen A₁ by its common name. (i)
 - Name the phylum and class to which specimen A₁ belongs. (ii)
 - (iii) Give an example of another organism which belongs to the same phylum as specimen A₁.
 - (b) Draw a well labelled diagram of specimen A₁.
 - (c) How is specimen A₁ adapted to its mode of nutrition?
 - What is the economic importance of specimen A_1 ? (d)
 - (e) Where can specimen A_1 be found?

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