

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

**033/2C**

**BIOLOGY 2C  
(ACTUAL PRACTICAL C)  
(For both School and Private Candidates)**

***Time: 2:30 Hours***

***Tuesday, 18<sup>th</sup> October 2011 a.m***

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**Instructions**

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

1. Study specimen **A<sub>3</sub>** which is a dissection of a mammal.
  - (a) Carefully observe the dissected mammal using a hand lens without disturbing it in any way.
    - (i) Draw a labelled diagram of **A<sub>3</sub>**.
    - (ii) Name the system which have been displayed and pinned to your right hand side.
    - (iii) Mention two processes which take place in the system named above.
    - (iv) What is the importance of the processes named in (a) (iii) above?
  - (b) Name the part of the system responsible for food absorption.
  - (c) How the part named in (b) above is adapted for food absorption.
  - (d) Which part of a system is responsible for reabsorption of water?
2. Study specimen **R, S, T, U, V, W** and **X** carefully, then answer the questions that follow.
  - (a) Identify the organisms using their common names.
  - (b)
    - (i) Mention the kingdom to which specimen **R, S, W** and **X** belongs.
    - (ii) Mention the feature which distinguishes specimens **R** and **S**.
  - (c) Name the phylum to which specimen **T, U** and **W** belongs.
  - (d)
    - (i) What is the economic importance of specimen **X**?
    - (ii) State the features which places organism **X** and **V** into their particular kingdom.