

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

033/2B

BIOLOGY 2B
ALTERNATIVE B PRACTICAL
(For both School and Private Candidates)

Time: 2:30 Hours

Friday 15th, October 2010 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. 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.

1. Carefully observe specimen D_1 and answer the questions which follow:
 - (a) Draw and label D_1 .
 - (b) What abnormality can you observe from specimen D_1 ?
 - (c) Using a scalpel, carefully remove one of the structures used for ventilation.
 - (i) Name the structure.
 - (ii) Draw and label the structure identified in (c) (i) above.
 - (d) Describe the mechanism of ventilation in specimen D_1 .

2.
 - (a) You have been provided with specimen A_1 . Using a hand lens examine specimen A_1 .
 - (b)
 - (i) Identify the specimen using its common name.
 - (ii) To what Kingdom and Phylum does specimen A_1 belong?
 - (c) Draw a well labeled diagram to show the external appearance of A_1 .
 - (d)
 - (i) Give distinguishing characteristics of the Phylum to which specimen A_1 belongs.
 - (ii) Mention the advantages and disadvantages of organisms belonging to the Phylum mentioned in (d) (i) above.
 - (e) Where can specimen A_1 be found?