

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?