THE UNITED REPUBLIC OF TANZANIA

NATIONAL EXAMINATION COUNCIL

DIPLOMA IN SECONDARY EDUCATION EXAMINATION

733/2B **BIOLOGY 2B**

(ACTUAL PRACTICAL B)

Time: 3 Hour. **Tuesday 12/05/2010 a.m**

Instructions

1. This paper has three papers.
2. Answer **all** questions.
3. Question **1** contains 30 marks while question 2 and 3 have 10 marks each.
4. Mobile phones are not allowed inside the examination room.
5. Write your Examination Number on every page of your answer booklet.

1. Dissect specimen **V** to expose the digestive system.

(a) Draw and label six parts of the digestive system.

(b) Identify the organ for:

(i) Carrying food from mouth to stomach

(ii) Enzyme ptyalin production

(iii) Bile secretion

(c) Does the specimen have a gall bladder? Explain.

2. You are provided with specimen **W**. Follow these procedures:

(a) Cut W in half and grind one part (test tube A), keep the other intact (test tube B).

(b) Add 2 ml hydrogen peroxide to both. Observe reactions and test the gas using a glowing splint.

Questions:

(i) What is the aim of the experiment?

(ii) Which test tube is the control?

(iii) Explain observations in both tubes.

(iv) Name the enzyme responsible and write the chemical equation.

(v) Identify the gas evolved and draw two conclusions.

3. Observe specimens **E**, **F**, **G**, **H** and **I**.

(a) List five shared features between specimens E and F.

(b) Give four industrial uses of specimen H.

(c) (i) What structures are visible on lower side of I?

(ii) State their function.

(d) List three features used to classify specimens E, F, and G into same phylum.